

cp software

CLOCK CHESS 89

CLOCK CHESS 89 is the strongest and most versatillo chess program, yet or your PCNy compaint. It has the most advanced SD program, yet or widest range of options, the power to play incredible test and the intelligence to selectively search deep into the position CLOCK CHESS 89 has been tested against a wide range of other chess programs and has shown itself to be stronger than any of

them. Written using the latest techniques CLOCK CHESS 89 does not use the usual "brute force" method of searching for the best move, but instead is packed with chess knowledge which uniquely allows it to search only those moves which are "sensible" or "interesting" and not to weste time analysing lines of play which it regards as deeper search of active lines, thus reaching those parts that other chess programs cannot.

Now with added strategic howledge to give an extra edge submining of profiles are centrally controlled for easy move input surviving. 30 gradies established controlled for easy move input surviving 40 gradies are centrally controlled for easy move input full display of its thought processes gives you a fascinating insight into its associal metalization of all the trues of chess including undergromotion, draw by repetition and the fifty move rule achieves git the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including those occurring with minor achieves gith the standard matter including the secondard controlled for each of the standard matter including the secondard controlled for each of the secondard controlled

*CLOCK CHESS is a lively and interesting opponent. An aggressive program that keeps you on your toes it dic.
Colossus Chess nicely* Mike Basman, UK Chess Champion.

CLOCK CHESS 89 IS COMPATIBLE WITH ALL PCWs

LIGHTNING BASIC PLUS

80+ NEW BASIC KEYWORDS AND 100% PCW COMPATIBILITY, THE ULTIMATE PCW MALLARD BASIC EXTENSION

First ever program able to trap Mallard Basic's command list. Produces devastating graphical output with fast smooth sprites for the games programmer and icons for more professional software. We guarantee you will astound yourself with your capacity for creativity using this amazing software.

Amy original features provide the float environment for the Basic registration. Now, Special Plus version adds yet more functions. The provide the float environment for the Basic registration. Now, Special Plus version adds yet more functions. The provided of the provid

LIGHTNING BASIC IS COMPATIBLE WITH ALL PCWs

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Z80X68000 SOURCE CODE TRANSLATOR

780 to 68000 Source Code X-Translator for ATARI ST on 3.5° disc

Are you an assembler language programmer? Do you have a littery of source ood "chusin" you keep re-using? Do you have a littery of source ood "chusin" you keep re-using? Do you want late, efficient conversion to ST and AMIGA? Their Z80X88001 is the tool for you programs or you group and chunks for 86000 computers, you can directly translate from 280 source code that or enabled afford energy transparency or you got the 88000 source code that or enabled afford energy transparency assemble in.

Remember, most programs consist of an outer shell, inner logical code, system dependant code and graphics routines. Z8DX88000 will easily convert the outer shell and the liner logical code giving you a bug-free start to get your software up and running. You can owner if run nine computer to another as easily as if they both used

Z80X68000 produces source code that runs at 2MHz Z80 equivalent on an ST. With a quick manual optimisation of time critical loops you can achieve 12MHz equivalence or better.

Z80X68000 for ANY ATARI ST on 3.5" disc + documentation £99.95

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THESE FOUR CLASSIC GAMES FROM CP SOFTWARE NOW COMPILED ON ONE DISC, BEAUTIFULLY PACKAGED, MAKES THE IDEAL GIFT FOR THE POW OWNER.

CLOCK CHESS 88 - "strongest chess for PCW, 3D graphics are well done, enjoyable to play against, 5 out of 5 - 8000 PLUS

BRIDGE PLAYER 2000 with TUTOR "very well thought through, fine display, gets the most out of Bridge on the computer" - PC PLUS

BACKGAMMON - "good implementation of the game, uses the doubling cube properly, good graphics" - 8000 PLUS

DRAUGHTS "extremely strong play, 3D graphics are pleasant to use" .

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KEYWORDS

To get you in the mood

NEWS

Read all about it

LOCOMAIL

Tutorial Part 5: Household accounts

CASE IN POINT

How a teacher taught himself the PCW

More on DIY graphics in BASIC

QUICKIES

A new drawing package and a DTP manual on disc

MINI OFFICE

Part 8: The Spreadsheet

DEVPAC 80 2 HiSoft's new development package on test

RUNNING A CLUB How the PCW can help you run your club

Patience and Return to Doom reviewed

LOCOSPELL

Predicting the future... with a spell checker? **BOOK LOOK**

Two new LocoScript manuals

BASIC WALLCHART Those commands you keep forgetting

Running a club

THE PORTABLE PCW? Isenstein's Odessa previewed

ILSHOT.LTS Locofile setup.

8k file (2% free)
f2=Index f3=Item f5=Goto f6=Find Printe Title Initials Surname LOCOFILE
The first look at Locomotive's database add-on to LocoScript

> LANGFORD Another of Langford's limbo files

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Can the PCW damage your health?

Z88 A new series on the portable alternative

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They who laugh last...



NOW WITH STOP PRESS, EVERYONE CAN HOLD THE FRONT PAGE NEWS.

'STOP PRESS' is the ideal DeskTop Publishing program for

home enthusiasts, schools, societies and small businesses, 'STOP PRESS' makes it simple to

create professional newsletters, leaflets, forms and fivers, in fact anything where text and graphics are required - placing you right at the heart of the DeskTop Publishing Revolution.

Text can be entered from within 'STOP PRESS' or imported from your word processor with fully automatic on screen text formatting including centering, ragged right and literal justification.

The graphics capabilities of 'STOP PRESS' are equally versatile. The ability to import digitised and scanned images is complimented by facilities for drawing spraying and painting.

Enhanced cut and paste facilities replace traditional methods (no scissors and glue supplied or required).

'STOP PRESS' includes an excellent zoom facility for adding those finishing touches before your work is output to a wide range of Epson compatible dot matrix printers.

Extra, Extra is a collection of instant clip art and new typefaces covering a variety of subjects and styles.

Stop Press can be used with a joystick or keyboard but the

AMX Mouse gives you the control and flexibilty which you would expect from the most accurate pointing device available.

Established as the market leader the AMX Mouse has been the driving force behind a whole host of new applications from other software houses. With its unique design and high resolution movement the AMX Mouse is a must



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COMMODORE 64/128	£39.99	269.99	_

These products are available from all good computer dealers or freepost direct by cheque, Access or Visa, All prices include VAT, postage and packing. Become your own publishing baron with 'Stop Press' and start the presses rolling.



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LET'S LEAVE THE LAST WORD TO THE PRESS...

"the most comprehensive in its field... very high quality printouts are possible"

Amstrad Action

"the best graphics available in a DTP package"

8000 Plus "exceptionally useful... the manual

was hardly necessary" Commodore Computing International

"it's phenomenal... this product is worth every penny" **Educational Computing**

"one of the most professional packages I've seen... all I can say is go out and buy it"

Andrew Comments

A&B Computing

VERTICAL HOLD

Is this a word processor? No, it is a computer.

This may not be a proposition from Wittgenstein – more like a line from a very bad Business English for Foreigners course – but it does raise a few philosophical points.

Stick a LocoScript startup disc into your PCW and it becomes a dedicated word processor. Until you reset the machine, switch it off or die waiting for LocoScript 1 to scroll to the end of your novel, it is a single-function machine. Which is probably why you bought it you may be quite a dedicated word processor yourself.

But it isn't just a word processor – it's a computer, ie, it can be programmed to do different things. Put the night plece of software into it and it becomes anything you want. It can become a cricket scorer or a recording studio or an accountant or a Scrabble partner. It can also, more useful still, become a business partner.

Which is where vertical software comes in. It's specialist, purpose-written software: instead of buying a spreadsheet, say, and then spending three months learning how to make it do the only thing you want from it, you buy an oft-the-per grogram which automatically maintains your parish records or calculates your cricket scores or works out your outrageous estatle agent fees or produces estimates for that building work you're doing. All you do is buy the software, put if in the drive and follow the prompts: an estate agent's program to keep house lists would ask you questions like 'how many room in the house?' and 'price?' and 'chied built'. Vertical software is not cheap by nature: it isn't a mass market product and you pay three rather than two figures. But if it is exactly what you want, it can effectively to the lob of one person.

Last year we appealed for examples of vertical software. At that time there were maybe a dozen examples. Now we te asking again — given the spread of the PCW in small businesses everywhere there must be plenty more vertical programs floating about. Let us know what you've written, or had written for your club, society, or business, however big or small; there will be a lot of others who'll be interested.

Reddinsley

Tipoff tipoff

The Tipoffs' section in 8000
Plus is one of the most popular
of the whole magazine – in fact
from this month we're making it
a four page feature, giving you
more information in greater
detail and with more
illustrations.

Last year, for the benefit of readers who couldn't get hold of our back issues (many of which are now sold out) we reprinted the tipoffs from the first six issues as Tipoffs 1-6. In response to the hundreds of requests we've had from new readers asking for a similar compilation of tips from the next eighteen issues, we're putting together all the tips we've ever

run from issue 1 to date.
Rather than just re-run old
material, we want to cater for all

you owners of 9512s, LocoScript 2, Mini Office, etc. etc. so we're completely revising and re-illustrating all the earlier tips, and the book will be split into sections – LocoScript 1, Protext, BASIC etc. for easy reference.

It's therefore rather a big job but we hope to have it ready for you soon after Christmas.

8000 PLUS

The merry December issue of 8000 Plus will be present in your newsagents on November 24th, a gift at £1.50. They won't be stocking up for long order your copy now!

Public Health Warning

Some time ago we published a cautionary note about the Mira Group of 577, Huddersfield Rd, Dewsbury, who advertised various services for PCW owners.

We had received many letters from people who'd ordered goods, had their cheques cashed, and never received anything. Our advice was not to send off any cheques to this operation until further notice.

Not only does the above warning still apply, but we d like to draw your attention to the newly-appeared Computer & Software independant (sic) Advisory Council of 577, Huddersfield Rd, Dewsbury. The phone number they

of 5/7, Huddersheld Hd, Dewsbury. The phone number they give (0924 430964) answers as the Mira Group answerphone. They invite dealers to send cheques for

New faces of '88

Joining us in the editorial department of 8000 Plus is Bath's batting local boy Steve Patient, fresh (having spent a long time out in the cold world of freelance writing) and determined to improve on the existing high standards - would he have joined us otherwise?

We hope he will bring to the magazine not just his way with words but his interest in those aspects of CP/M + so many of our readers are just beginning to discover. However, we will do our best to curb his enthusiasm for

£35 to be registered with them to enjoy the benefits of their 'services'

We leave you to draw your own conclusions!

delving deep into the bowels of the machine. Despite entreaties he refuses to part with a picture of himself in a bikini...

Next month

- Christmas stocking ideas plus LocoScript 2 vs. Mini Office
 - Test your PCW IQ
 - LocoMail wallchart
- · Four more pages of invaluable tips
- Assembler for beginners (honestly) a new series on writing machine code
- The complete buyer's guide to Databases. Comms. Educational and
- Programming software
 ...and lots of other Christmas goodies!



- 12 Issues of the Official Amstrad PCW Magazine. (worth £1.25 per month)
- Unlimited access to our PCW Technical Support Service.
- 3. Nationwide PCW training facilities.
- 4. 24hr Ordering Service,
- 5. Discounted Software . . . best prices in the U.K!
- Monthly Amdata PCW Newsletter.
- Welcome Pack.
- Discounted PCW Maintenance Scheme.
- Introductory Gift if you join TODAY! (worth £6 - £10)

A Message from Amstrad's Chairman

Dear Amstrad Computer User.

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You don't need me to remind you that you have selected the best computer in it's price range. Numerous journalists from the specialist press have now contributed to the opinion that Amstrad computers represent the best all-round machine you can buy.

One of the many reasons why computer journalists have received our products so enthusiastically is undoubtedly our careful attention to providing information on the

You can be a part of Amstrad's ongoing effort to inform and help users by taking advantage of this opportunity

to join the User Club. Catering only for the Amstrad computer user, this specialist support club was initially formed by Amstrad solely for the purpose of assisting you with all your computer needs.

There are many immediate and direct benefits available. so don't delay before filling out the application form below and sending it back to Amsoft.

Yours sincerely.

Alan Sugar Chairman AMSTRAD Plc

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Simply fill in the coupon and return It to us at the address shown together with your remittance. We'll send you your exclusive membership discount card, a 'Welcome Pack' and your FREE Introductory Gift.

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Games

Two of the best and most popular adventure games for the PCW are Hitch Hiker's Guide to the Galaxy and Leather Goddesses of Phohos, 'Goddesses' was written by Steve Meretzky, who co-wrote the computer game version of 'Hitch Hiker's' with Douglas Adams

Since Infocom stopped distributing games for the PCW these two games have been more and more difficult to find from mail order places. However, one enterprising Scottish retailer has managed to get hold of several hundred copies of each and claims to be the only real source of the games for the PCW. They are available from ComSoft of Coldstream, Scotland (0890 2854) for the standard retail price of £24.95 each.



Is that a fax

Professional Computer Consultancy have just announced the launch of their new software for the PCW called FAX.

FAX expands on the functions of the typical personal organizer. millions of which are now flooding the market, by producing printouts to fit organizers of any size. You can print out from the program on ordinary A4 paper, or continuous stationary. All you need to do then is cut the sheets to the required size and punch holes in them to fit the binder you're using, whatever its make or size.

As you'd expect from any organizer package, entering names, addresses, telephone numbers and other details. together with a few notes, is perfectly feasible; but as well as printing weekly and/or monthly calendars, you can also make appointments in the diary section for individual dates and times, and repeat appointments for a given day of the week, or a given date in several months

All entries have a comprehensive search facility with each word of each entry being indexed. Editing facilities are said to be extensive

The PCW version of FAX. complete with manual and including VAT and postage is available at the introductory price of £24.95. Contact Leslie Fahidy on 0293

776683 for further information.

It's quicker by Grail

Following Mandarin Software's launch of the Arthurian blockbuster, Lancelot, last month, a nationwide treasure hunt, starting on the 17th October, is being staged to promote it. The guest involves discovering the secret hiding place of a £5000 replica of the legendary Holy Grail, Hand-crafted from sterling silver, the seven-inch copy of the famous goblet has been hidden in a secret location somewhere in the UK. Gilded inside with 22 carat gold and studded with amethysts, garnets and opals, the Grail will be mounted on an oak block bearing a silver plague on which the name of the winner will be engraved.

Contestants have to battle through a two-stage contest based on clues lurking in the depths of the three-way adventure package. Four preliminary clues issued on a Holy Grail hotline at the beginning of October reveal possible locations

of the goblet. The first 36 contestants to correctly guess these will receive a further set of clues leading to the real location.

Organizers of the treasure hunt. Mandarin Software and Level 9. say that anyone who carefully studies the game should be able to crack (at least) the first set of clues without any difficulty at all. For further details, contact Mike Cowley on 0625 878888.

Backpackers take note

Isenstein's battery back pack is now available. This is a device which fits onto the expansion port



at the back of the PCW and quietly saves all you data as you go along - the idea being that if you experience a power cut or just forget to save all the data before you turn the machine off, the battery-powered pack will save the data in memory for you to start up again where you left off when the power comes back on. Invaluable if

Have Amstrad blown it?

as a games-cum-business

increasingly important feature of

the PC market and the 200 is

meant to appeal to the games

compatibility with the 'industry

progress onto more business-

oriented applications. However,

many are pessimistic about its

chances of success, saving it's

too expensive for what it does

when you can get, for example.

monitor for a few pounds more

market will leave someone with

" I'LL BE GLAD TO GET HOME

AND WATCH THE TELLY

an Atari 520ST plus colour

Amstrad have confounded

plenty of critics before now.

though, and the Christmas

egg on their trousers.

standard' software as they

player who wants the benefits of

machine. Games are an



September saw the Personal Computer Show at Earls Court. Not much of interest for PCW owners - the only new product on show was Locomotive Software's LocoFile, described in this issue. Otherwise, all the software and products around had a very familiar feel to them.

Amstrad announced the PC 2000 series, aimed at the corporate market, ideal if you have four grand to spare and want a machine which looks like a PS/2. If on the other hand you don't know what a PS/2 is, you may not be interested

Most reaction was caused however by their Sindair PC 200. Prices range from £299 to £499 and the technical spec includes phrases like 'Intel 8086', '16-bit chip' and '8 MHz'. There's a choice of mono or 16 colour CGA monitors, or you can plug it straight into your TV set. There are parallel and serial ports, plus a 312" 720k disc drivo

So what's it for? Bearing the

Sinclair name Amstrad bought

off Sir Clive two years ago, the

toy PC', as some pundits have

scathingly described it) touted

new model is a cut-down PC ('a



you live in an area where power cuts are frequent it has an expansion port itself on the back for you to put your RS232 interface

The backpack costs £39.95 plus VAT and is available from Isenstein on 0244 312986.

Nov 88 8000 PLUS 7

Turning vertical

IT Marketing are currently launching industry-specific versions of their highly successful Cash Trader Plus and Credit Trader programs. The three vertical markets in question are Onticians (who became liable for VAT in September), Vets and Doctore

Richard White, Managing Director of IT Marketing, says "Every type of business is

Prices down

In response to Locomotive's

marketing of their own add-on

have brought down the price of

printer styles for LocoScript, Digita

their similar package 'SuperType 2'

for use with LocoScript 2. Its price

has almost halved to £14.95, and

with CP/M programs (like Protext).

They have also slashed the

and are talking about new software

for the PCW. They aren't giving too

programs is a Payroll program said to be one of the most sophisticated

price of their Business Controller

program from £99.95 to £69.95.

much away yet, but one of the

(a revolving door simulator? A planetarium emulator?)

SuperType and Business

Controller are available from Digital on 0395 45059

Is their 'C' key

broken?

which enables you to work out line and character pitches and

millimetres and picas (or possibly

Not only can it be used to plan

printed material so that text can be

copied back into the computer pitches and all. For more information about either product,

call Dorian Young at Kador on 0443 740281.

Kador's Kompukalk is a more

conhicticated than usual ruler

appropriate scales for inches

the layout on a blank piece of paper, but it can also be of help on

pikas)

on the market. Another is described only as 'revolutionary'

Digita point out that it also works

different, so it is important that manuals and screen displays talk in terms that mean something to individual business man Doctors expect to use programs that refer to Patients, not Customers, and which are set up to deal with Family Practitioner Claims and Reimburgemente 1

These new packages have been perfected after months of collaboration with existing users and a firm of Chartered Accountante

Cash Trader Plus and Credit Trader are available at £199.95 and £299.95 respectively. Further versions are also said to be under preparation for Architects. Hotels, Pubs and Churches.

For further information. contact Richard White

on 08045 6566

Pools Forecast

If you won a million pounds, would it change your life? Yes, we hope so too. Pools Predictor is the name of a new football pools prediction program for the PCW range from Corwen Computer Systems in Clwyd. It's been designed, say the authors, with ease of use in mind. There's no setting up to do whatsoever, as the program is supplied as up to date as it can be at the time of posting.

Central to the prediction process are two entirely separate but linkable systems. On the one hand there's the Form prediction formula which explores the current form of the teams involved: on the other is a statistical process designed to uncover the draws. At £15.99. Corwen say that the program could very quickly pay for itealt

Phone 0490 2902 for further



Just for the record

For all would-be disc lockeys and proud owners of vast record collections, Cavalier Software have just announced the release of Rechord, a database for cataloguing album collections. It's the sort of program that will help anyone who enjoys having an impressive number of tracks always available at their fingertips but who can never find the one they're looking

The principle of the database is easy; you catalogue by user reference number the details of each album, single, video or cassette tape which you have in your library. You can then trace any track on any recording in the

library, using any one of the fields created: artist, main title, recording code number, date or track name.

The whole system is menudriven, said to be very easy to use and also provides you with insert cards for cassettes as well as other lists and index cards which you can consult at times when it's inconvenient to get your PCW up and running - when you're on the road for instance.

The PCW version of the package costs £29.95 (inclusive of everything) and can be obtained from Cavalier Software, PO Box 32. London SE15 2HS.

Phone 01 639 668 for further details

Microlink expands

Hugely encouraged by the heavy increase in subscriptions due to the postal strike. MicroLink is making considerable improvements in the services it runs both for businesses and the general public

The leading electronic mail system has just announced that. from October 4th, its subscribers will be able to enter into direct communication with fax users all over the world: there are 200,000 of them in the LIK alone Three more useful

modifications are currently in the pipeline: firstly, a high-speed number cruncher, which will convert units of measure, weight, capacity and temperature from Imperial into Metric (and vice versa) - all this correct to 16 decimal places, just in case you order your rounds correct to billionths of a pint; secondly, a currency exchange calculator which gives an instant conversion of a given sum of money into any of the world's major currencies (the 16 places will presumably come in handy for lira); and finally, a postal rates calculator, which tells you the cost of sending a letter 1st or 2nd class inland or anywhere else in the world by surface or air mail. All you do is enter the weight and class of the letter and the correct rate is instantly displayed. The only thing it doesn't calculate for you is your telephone bill for doing all this



For further details of Microlink's facilities, phone Tony Leah on 0625 878888

Happy Christmouse

AMS, the manufacturers of the successful AMX Mouse are offering a prize to the 100,000th purchaser of their product. A forecast made on the basis of past sales has shown that the company will be shipping out the 100,000th mouse in something like a month's time. AMS will be monitoring its progress so that they know exactly which retailer has it. Its precise location will remain a mystery to

everyone except the retailers themselves so that when the time comes, 'a fanfare will sound' (obviously not played on the PCW



- not many fanfares can be played solely on B flat) and the prize will be presented. The prize itself will be a Fortnum and Mason Christmas hamnor

The AMX Mouse is compatible with the Amstrad PCW (among others) and comes bundled with Stop Press, popularly acknowledged to be one of the best desktop publishing packages on the home computing market.



The day Roger Jackson sent his first mailshot.



I was impressed by the fact that Star have now produced a great looking little budget printer with a 24 pin head.

I was impressed by its excellent quality – the 8 resident fonts available and its high density letter quality helped me produce a really professional mailshot.

I was impressed by the extremely swift draft elite speed of 170cps and LQ elite at 57cps and the standard 7k buffer.

I was impressed by the special push-tractor feature that allows the LC24-10 the lowest possible tear off and its ability to 'park' continuous paper and load single sheets automatically – so there's no need to remove the continuous.

I was impressed by the touch-button front control panel that makes using the printer an absolute dream.

But most of all, I was particulary impressed with myself.

Because my Star LC24-10 was so inexpensive and no other printer comes close for sheer quality and value-for-money.





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At last a database program that likes LocoScript! Rob Ainsley has a sneak preview of LocoFile...



THE LOC DATABAS

hy don't more commercial programs work from within LoosScript? Why does everything you buy have to be run from CPM, rendering any transfer of information from your database, spreadsheet or graphics package awkward in the extreme?

LocoScript is very different from other programs, and specially designed for those unfamiliar with computing. Hence it has developed into an idiosyncratic system which hopeful writers wanting to create an add-on spreadsheet system or database would find very difficult to work with.

So, virtually all software for the PCW uses CPIM, whose whole purpose in life anyway is to provide a platform for third party programs to work from, Unfortunately LocoScript is such a nice oze environment it discourages people from venturing into CPIMiland to run a database. Seeing the potential for a LocoScript database add-on, Locomotive Software, writers of all the 'Loco' products, have come up with LocoFile.

LOCOFILE

£24.95 • Locomotive Software (0306 740606)

LocoFile is a database system that runs completely from within LocoScript; you never need to leave off editing a letter to look up an address, or run up CPM to find a telephone number. When using it cards pop up on screen, 'in front' of the document being edited or the disc manager, and after use they disaboear to leave the original screen as you left it.

It comes as a disc which converts your LocoScript 2 to the latest version, 2.20, which then incorporates LocoFile. If you have ever run LocoSpeil or LocoMail (both of which work fine together with LocoFile) you'll know what to expect. Everything is the familiar LocoScript style of menus and prompts, and you have the regular menu-cum-command sequences, with any letter as usual selecting the appropriate option from the menu (eg. 'A' for 'Abandon edit') as well as the cursor keys.

Any datafile ending in .DAT in group 0 of a disc in any drive gets copied automatically to group 0 of the memory, so you datafile – names and addresses perhaps – is always available for use even when editing a document on another data disc.

Suppose you're in the middle of editing a document and want to look up an address, typically at the start of a letter. You press [11] Actions' and find that in addition to the usual Document Setup, Insert Text and so on, there's a new option "Run LoocFile". You are taken to the disc manager screen and asked which database you want to use (subsequent runs of LoocFile will assume the same database as used before, with the option to select a different one.)

You move the cursor over the file you want and [ENTER]. Up pops a 'card' on screen from your database file, the last one you were looking at, with the cursor in the same position as it was. You can move the cursor around it with the usual cursor keys, and [ENTER] takes you to the next field, [RELAY] to the previous one. Each card is treated as a page

in a [AL and sel init

> Pro you as reg up na or no

> > of pa in th pr

a o Y th y n

COPHILE ASE

in a document; [PAGE] moves you to the next record, [ALT]PAGE] to the previous one, [DOC] to the last record and so on. All this is according to the order of the currently selected index: eg. if you're indexing on surname and then initials, [PAGE] might take you from G. Marx to K. Marx, and [DOC] thence to W. Zzynlewski.

Beefy extract

Probably you want to use the name and address in the letter you were writing. You do this sither by [CUT] and [PaSTE] as romal, or through [7] Extract. This lets you set up as romal, or through [7] Extract. This lets you set up as romal, or through [7] Extract. The example you can set up your database so that [7] always takes out the title, rame, address and postcode, but one stellephone number or salary. Extract copies the information specified into a normal block, and a couple of keypresses later you're straight back to the letter you were writing, pasting in the name and address you've looks up. Any blank felds come

out as [RETURN]s. As there are ten blocks available you can get ten pieces of information from the database and paste all ten in at the appropriate points in the letter.

Indexing of your records (effectively the order they are kept in, though in fact programmers differentiate between sorting and indexing) can be done on any item and any sub-item, the most obvious example being sumame-initials. You can also do it on a numeric basis, so You can also do it on a numeric basis, so You can also do it on a numeric basis, so the second the second that the second them character by-characters trafter than as numbers I) Loomondive, having a sound cross-cultural outlook, allow you to index in English. Scandinavian (in which à and e come after 2 or a Cynillian).

Often you need to find one specific

The database is the first program you buy after your word processing tools. It replaces a filing cabinet: it keeps on disc all those names and addresses of your club members, customer records, catalogues of your Andrew Lloyd Webber LPs, publishers who've rejected your novel etc. All easily edited, re-ordered, sorted into groups, printed out and so on.

The only problem for LocoScript users is that you have to leave LocoScript, start up CPJM, run your database program, write down the details you want, restart LocoScript... a bit of a fag if you're only looking one address up. Now, at last, there's a database that works completely from within LocoScript.

record – that customer called Marx maybe [15]. Goto lets you specify the indexed item to be found (ie. the sumann if you're currently indexing on sumanne) and immediately displays that record, or a blief message and then the nearest it can find if there's no exact match. [16] Search is more general: say you can only remember that the customary ou're looking for lives in Metwan, You give Wetwang' as the search text and Loocellie goes through every ltem of every record looking for places where Wetwang' cocurs. This tends to be slow by nature of its throughness: "Goto on the other hand is fast, taking under a second (and no time at all if the database file is on the memory or a hard disc).

For indecisive people, maybe

A great feature of LoooFile is its flexibility. However carefully you set up a database, you realise later on that you've forgotten to leave a slot for 'country' on the address, or that the space you left for the telephone number

ian't big enough for international numbers, or that the card layout is just too small. Most diatbases make you start up the whole thing again, maybe letting you use the old data if you're lucky. Loop-lie, however, makes no such arbitrary restrictions. At any time you can add fields, change the shape of the card, make fields bigger, remove fields, reposition items, and so on. The north trip you can't do is make cards too small to fit anything no.

There's no limit on the size of a LocoFile database – you can make it as big as will fit on the disc, even a hard disc. Thus you might get a few hundred name-address-phone no. cards on a 179k disc and around a thousand on a 706k disc, though obviously it depends on how big each card is. On a 20 meabyte hard disc you could store

9512 note

LoosFile will work on eminer the 8256 8512 or the 9512, but separate versions will be produced for each model You! have to state which machine yo own when buying, therefore, at its probable that if you have to machines you'll have to buy two copies. Sorry!

One for all, none for 1

LoopFile does not work with LoopScript 1 and never wit. If you're an 8256 or 8512 owner and still haven't bought version? 2. whaddy waiting for? Much faster scrolling, abrilly to work, with any printers in the world, jumping direct to any page in a document, easier layouts... all or just 255/III its available from Loopmotive on 0306 740606.







Er, what is a database?

'information' but is easier for computer journalists to type. A 'database' just means 'a purposes' but only takes up eight letters.

The word 'database' is used with three as: the information store itself in general, the computer program which manipulates the information, and the information as stored on disc. Thus the current TV adverts for the Talking Pages where John Cleese tries to buy an antique diamond ring show an obliging operator using the database (program) to search through the British Telecom database (store of information, based on the information contained in the Yellow Pages) which is

eries of file

In effect a database replaces those cardexes In your local Ilbrary which have one card to a book. There are fixed slots for author, title, publisher and so on, and the cards are kept in order of author. In comput ch item on the card a 'field', and the whole collection of carde a 'file

A significant use of name-and-address ses is in mailshots. From your database you make a file of names and addresses, then tell LocoMail to write letters to all the names like 'Dear (name). We'll be round to (address) to see you If you don't pay up the (amount owing) you owe us'.



done from the disc manager though. Cards can be made any size up to 99 lines deep by 80 columns wide. You scroll around large cards if they're too big to fit on the screen. Cards can be set up to 'expect' a certain printing style, just like LocoScript documents, so you can configure your database file to print out those names and addresses on vour 'Filofax' paper type in Script font.

File your mails

LocoFile and LocoMail data files are two-way compatible ie, you can use data files from either directly as data files in the other. Suppose, for example, you have an existing LocoMail data file consisting of names, addresses and telephone numbers: set up a LocoFile database consisting of the same items and LocoFile can read all the existing entries from the mail file into its database file. Saves a lot of re-typing! Alternatively, LocoMail can read LocoFile data files. - so if you want to do a mail shot to all the customers in the database file you just write your letter as usual with bits in like Dear (+Mail) name (-Mail) where 'name' is an item (or field) in the database file, and the results will be as you

You can therefore use LocoMail to produce 'reports' from your database - ie. if you just want a name-and-telephone number list from the name-address-and-telephone number database file, you use LocoMail. LocoFile has no calculation facilities built in, but you can again use LocoMail to do things like total figures for you or calculate VAT or prepare invoices.

9512 owners have LocoMail already - otherwise Locomotive (0306 740606) will sell it to you for £30.



something like twentyfive thousand people's details, or perhaps a concordance of every word in the Bible together with extensive details on when and where each is used The 'squash' function

'squeezes' files, rewriting them to make more efficient use of disc space. Possibly more important is the fact that it can also rescue database files if you get

a problem with your disc, and the directory gets corrupted. It doesn't guarantee that a database on a disc left next to an X-ray machine will be recoverable, but should prove a useful emergency tool.

Editing a database file, or looking up a record or two, can be done from within a document. Setting up a new file is

Selectors out

LocoFile is a very simple database and doesn't have some of the functions you would get in a CP/M database of the same price - ability to select groups of records (just customers who owe you money for example), or anything more than crude printing facilities. You can only print out images of each card; for 'reports' (ie. printouts of just some items, such as name-phone no. only) you need to use LocoMail. You also have to use LocoMail to do selective printing, ie. only sending threatening letters to customers who owe money

However, a neat feature of LocoFile is that you can tell it just to print out the items from the database which have been edited or added since the last printout. Handy for keeping long lists updated.

All in all LocoFile looks an excellent product - a simple but very flexible database that works from within LocoScript and is totally compatible with LocoMail. Of course it won't replace specialist databases like Masterfile, Delta, dBase, AtLast and the rest, which have much more powerful data manipulation and printing functions; to make the most of LocoFile, you really need LocoMail.

However, on the simple name-address level that 90% of database work is involved with, it's difficult to think of any LocoScripters who wouldn't find LocoFile useful: unless you're dedicated to CP/M, have no outside interests to catalogue, and know nobody to write to, you'll find LocoFile a vital part of your word processing armoury.







LOCOFILE

- ▲ Works completely from within LocoScript ▲ Usual helpful menu-and-prompts
- Size of files limited only by disc space

- ▲ Can change structure after setting up ▲ Fast, efficient and well-written
- ▲ LocoMall/LocoFile data Interchangeable

MINUSES

- ▼ No report generator must use LocoMail ▼ No calculation facility – must use LocoMail
- ▼ No facility to select only certain records
 - must use LocoMaii

RANGE OF FEATURES PERFORMANCE

EASE OF USE DOCUMENTATION 5/5 8000 PLUS VALUE VERDICT 5/5

5/5 N/A



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help you to sift out the players who just don't have what it takes anymore, and the college draft will give you the chance to find that star player you so desperately need. If your already a fan of the Gridiron, then "HEAD COACH v3" will test how much you really

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It's always useful to maintain a ledger at home to keep track of your bank account. Every payment made, either by cheque or more recently by Connect card, is scrupulously entered in the accounts book (in theory at least). Trouble is, entering all of your direct debits and standing orders every month can be a real chore if there are a lot of them.

Of course you can buy accounts packages incorporating the sort of simple, toolproof routines that can automate all this. But often the cost is much greater than the need. One alternative is to write a program in BASIC – but for the silent majority of LocoScripters, a Loco-based system is much more practical. All 9512 owners, and 8000 owners who've bought LocoMail, can use the mail merger to run their own accounts handling routines.

the maximum power in your home-grown accounts program, you need to utilise both Fill raid "Merge" modes in LocoMail. Using the Fill option, you update the accounts sheet every month, say, with entries that are either a one-off or likely to change from month to month—like winning the pools, inheriting a vast amount of money from Great Aunt Maud, paying a speeding fine and so on. Regular monthly transactions, on the other hand—like salary, standing orders, direct debits—can be grouped together in a datafile and automatically merged into the standard document later on.

The routine is very thorough and will show the date of a particular transaction, the method of payment involved, the amount of credit or debit, and a running balance. LocoMail calculates all the arthmetic automatically — so long as you feel to the proper instructions and codes; similarly, as long as your entries are correct, the final balance will be too. Basically, you need to prepare four flies: a Template which is the foundation of the master document, a Fill document, a Merge document, and a Data Fille. You can see in the first screen shot what a combination of Fill and Merge looks like, with an existing balance of £250.0. The first five entries were made in Fill mode, the other regular deductions were drawn from the Data File in Merge mode.

First things first

First of all, you need to create a new file as the format of the main records. Cell it TEMPLATE STD. As long as all the files are created in the same group the layout Set up will be duplicated in all of them. Via Document Set-up, devise your header layout, fixing the table you're going to need. [EXIT]. Return to Edit, Change Layout and set up the same tabs for the main part of the document.

(+Mail)balance=?#; Enter balance to date - [RETURN] [RETURN] 100p=" (+Mail) [RETURN] (+Mail) [RETURN] 1date=2:date (-Mail) [TAB] (-Mail) [TAB] (+Mail) [RETURN] transaction (+Mail) [RETURN] method (-Mail) [TAB] (-Mail) [TAB] (+Mail) [RETURN] credit (-Mail) [TAB] (+Mail) [RETURN] balance=[balance+[credit-debit] |2]:balance [RETURN] \$+(-Mail)" [RETURN] %loop@transaction(-Mail)

CREDIT WHERE CREDIT'S DUE

Malcolm Ruthven shows how LocoMail can run your home accounts

Creating fill document: FILE ACCOUNTS.F. (Mail)balance=7#; Enter balance to date: [RETURN]

200fill=#

[RETURN] (+Mail) [RETURN] ? date (-Mail) [TAB] ? transaction (-Mail) [TAB] (+Mail) [RETURN] (+Mail) [RETURN] ? method (-Mail) [TAB] credit=?#:credit=[credit|2] [RETURN] #credit="0":<(-Mail)00.00(+Mail)><:credit:>(-Mail) [TAB] (+Mail) [RETURN] debit=?#:debit=[debit|2] [RETURN] #debit="0":<(-Mail)00.00(+Mail)><:debit:>(-Mail) [TAB] (+Mail) [DETYIDA] balance=[balance+[credit-debit] |21 [RETURN] balance [RETURN] reply=?; For another entry press ENTER, or type N to finish [RETURN] \$reply="N*":<:finish=0:><:finish=1:> (-Mail) " [RETURN] %accfill@finish (-Mail) [RETURN] (+Mail)memo; Press ENTER then choose SAVE RESULT option [RETURN] ; and save file on group in Drive M. (-Mail)

(+Mail)

00.00 00.00 00.00	30.00	1150.0
22.00	15.00	1105.0
q 00.00	37.30	1089.7
00.00	250.00	839.9
00.00	14.00	800.9
80.00	31.00	740.4
00.00	13.00	727.4
	00.00 00.00 00.00 00.00 00.00	7 00.00 37.30 00.00 250.00 00.00 14.00 00.00 29.50 00.00 31.00 00.00 13.00 00.00 6.35

LOCOMAIL

[EXIT] and Finish Edit.

Then create the file, ACCOUNTS.F, for filling and ACCOUNTS.M, for merging:

Data import

Finally, you need to create a data file, ACCOUNTS.DTA, for your regular, rarely-altered debits, and receipts (if you're lucky enough to have any) for merging with ACCOUNTS.M. Change the layout of the document so that there is only one simple tab in the middle of the page and just two decimal tabs further to the right. Tyre in the following record nattern.

You should be able to get it all on one line, of course, without the bracketed instructions. Set out your data in separate pages below, and don't forget the semi-colons and the record terminator [ALT][RETURN] every time.

transaction; [TAB] method; [DECIMAL TAB] credit; [DECIMAL TAB]

debit [ALT.RETURN]

Would you credit it

To set up your first accounts sheet, it's probably best to begin with the Fill unin I —then there's a good chance of topping up the balance with a credit or two I set the cursor on ACCOUNTS, press F, [ENTER], and fill the table with details as prompted. When you've finished, make a note of the final balance. From the completion menu, select Save result, and save it to a nearby group in Drive M — that mears you don't have to worry about erasing it later, and you can even accept the offered file name DOCUMENT.000 if you like

Next, merge the ACCOUNTS.M file with the ACCOUNTS TA file. Set the cursor on ACCOUNTS SIA and press M. When prompted for the file for merging, move the cursor to file ACCOUNTS.DTA and press [ENTER]. The first thing you'll be asked for is the current balance (which you've carrying forward from your file –1098-97), and then for the date. Once you've typed that in, all the other information is entered automatically. Save result of that file to a group in Drive M, too. Unless you rename it, it will be called DOCUMENT.OT

Finally, creating what is to be your main document involves merging (in the non-LocoMail sense of the word) the Fill document and the Merge document together. It's quite a good idee to keep a separate file for every month, so you could name it, for example 8800 ACC. Having opened it, go to insert Text (from 11, Actions), and insert first ACCOUNTS. Fis saved in Drive M probably as DOCUMENT.000), and then, in exactly the same way. ACCOUNTS M (OCCUMENT.001). Your simple accounts file is now up-to-date and you can [EXIT] and Finish Edit or Save and Print as you like.

The information can be kept either on disc or as a printout for storing in a loose-leaf binder. And any time you need to update it just work with the Fill document, as before.

■ LocoMail is available from Locomotive Software (0306 740606) for £29.95. Different versions are available for LocoScript 1 and LocoScript 2. 9512 purchasers, on the other hand, get LocoMail and LocoSpell free with their LocoScript 2 disc.



Brief reminders

in Merge mode, you'll get an error message if you attempt to use a variable name (like, in this case, Gas, Rates, Telephone etc) without assigning any information to it. This doesn't mean that no information is unacceptable (it is possible for example to have a field in a datafile that registers nothing), but that variable names that are not defined will be rejected.

Ready for merging with datafile

In Fill, of course, it's parfectly acceptable to use an undefined name: if it's used in an expression, or elsewhere, you'll be prompted to supply the relevant Information from the exploard (like Date?, Transaction?, etc). This Information is then stored with the name. New Information will be assigned to that name at the start of the next pass.

If you get an 'invalid record pattern' message,

followed by a prompt to cancel the operation when trying to merge a master document with a dataffie, it means that the dataffie you've selected doesn't have an acceptable record pattern or that the record pattern in question has got two terminators (End Page Here' symbols). Edit the datafile and try the merge again.

information being inserted into the wrong blanks, meanwhile, would seem to indicate that the datafile has not been set up properly in particular, it might be worth checking the use of field separators in the record pattern against their use in the data records themselves; errors are prefty certain to occur if the character that you've chosen as a field separator appears in the midst of Information it ought only to be used to mark the end of. Use carefully, for example. the hash sign if it's being used to incorporate what's ultimately more than one line as a single field in the record pattern (as we've seen with addresses, for

If, after at the Localetal instructions have been processed, the usual Exit menu is not displayed on the screen, and insited you're let with the cursor on the document long after the last instruction was oldowed, then the chances are you're presend the EMER key more times than was strictly necessary. Because some of the information may well have been inserted into the wrong slots because of this, what the propriam has done is very thoughtfully send you back to the editing screen so that you can correct any mistakes and then carry on as normal.



LocoScript 2 for your PCW8256/8512 The FASTER, BETTER word processor

move around documents faster

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 including Greek and Russian scripts
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TEACHER'S PET PCW

lan Kernaghan tells how the PCW taught him a lesson in automation

omputing only started for me, despite my physics degree, six years ago when I went on a course for using computers in science teaching. As Head of Science at Forest Hill School in London, I realised that we had no expertise, so I duly signed up, little knowing what the future was to hold!

The course introduced me to programming in BASIC, which in retrospect was the wrong approach, as it soon became clear that to produce effective teaching programs you need vast amounts of time, and today's teachers have precious little of that. Having laboriously plotted my sine curve, I could see that this machine might have other uses, so on returning to school I pestered the Head and eventually got the department its own black metal monster.

I then found out that it was impossible to do computer development in school during the day, and discovered Kernaghan's Law of Educational Computing – "For every thousand pounds of hardware, you need to spend another thousand on somebody's time".

Look before you leep

I first learn to use a database program called LEEP (you thought AtLas and Cracker were still prames?) to organise groups for end of term activities. This program was very unoforgiving as you could not search for records in editing, or go back if you made a mistake. When it eventually was to its final task of printing out, it took two and a half hours to do the job. Because nobody had ever tried to do such a large job before, we all thought the machine had broken or jammed, and switched it off several times before we decided to see if it ever would stop!

Next I bought WordStar. What an experiencel I can honestly claim to having learnt Wordstar from the official manual, which is no doubt why I was of the few who thought the first LocoScript manual was wonderful.

By September 1985 I was furiously saving the £2000

needed to buy a system that I could have at home when I read an article in The Guardian describing this wonderful new system, but hadn't I read it all before? Remember Oric, Dragon, Memotech? A colleague went to a computer show and returned with the brochure and a sample page of print. No, this could note true, not at that price! By now other reviews were appearing, so on their recommendation! placed an advance order, and can duly claim to be one of the first owners in the country, collecting it the day it first arrived in Dixon's in Croydon. Cra

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Now at that price I knew that it could not be as good as the sytem that I had grown up with. Two and a half years later I still cannot quite believe the value for money that it represented then, and still does today. The opening days however were not easy. As a Workstar expert I ad expected to transfer in a trice, but LocoScript's approach was rather different

Pip does a strip

I had bought the 8256 expecting not to be able to transfer my Wordstar and Microscan files, but this proved to be no problem. Microscan directly produces ASCII files, and I discovered that if you copy Wordstar files with PIP using the [Z] option, then it strips out all the Wordstar codes leaving pure ASCII files. The 5½ discs. The 5½ discs. were then sent of to Grey Matter in Devon, who transferred them on to 3" disks by return of post. A E10 a disk this is a very good service.

For me the main thing that word processing can do is not merely to correct mistakes or prevent professional copy, but produce several different types of documents from the one original. When I start to write a new until of work, I sid down and write a course guide that has teacher and technician notes on one page, the pupils instructions on another, and the questions last. The overall format is set up in the template, so that question numbers for instance, need never be typed more than once, as the template can then be copied and edited for each unit.

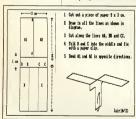
This guide forms the definitive text for teachers and technicians, and they are encouraged to write their own comments and suggestions into it for typing up by me later. This guide then becomes a way of communicating amongst all the teachers, and a historical document, listing all the good and bad things we have done.

I then cut and paste the instructions to get the pupils' sheets for use in class. The questions are cut and paste into other sheets that are copied and given to each boy. This means that all teachers set the same homework leading to greater uniformity, and time is not wasted in the pupils having to copy the questions down.

I supplement the pupils' sheets with artwork produced by the Electric Studio Art software and mouse. I find this a very good package to use, and more than adequate for my needs which are usually simple apparatus diagrams, or drawings of

graphs. A diagram used in a worksheet can then be easily modified for use in the test. My one criticism is that you cannot quickly call up an erasing block, but have to go through several pulldown menus every time, which is tedious.

For administration
LocoScript is perfect for
producing standard letters for
internal memos, missing
homework, poor behaviour,
etc. The beauty of being able
to tailor such letters to meet
changing needs is a
tremendous aid to good
administration



Name	a TG
	HW 1 - VELOCITY AND S
Low	er Changing speed
Mid	dle Speed and velocity, acceleration
	Read and learn chapter 35, "Speed", " "Iickertimer: tape charts".
	INSTRUCTIONS - DO NOT COPY
1.	The correct use of units at all times is v important.
2.	When setting up the ticker timer, make sur carbon disc is shiny side down, and is fre The dots must be clear.

At last the

problems

Atlast is weak on one area only

and it freely admits it, and that is

mathematical calculations. It

only totals on separate fields, and nothing else. This means

that it would give me the total of

Electricity test or Microbes test

cannot work out the average

will not add each pupil's test

marks or average them, and

drasing are non-existent

subtraction, multiplication and

(this has to be done by taking

the total and doing it by hand). It

marks all pupils had in their

which is not very useful. It

Crackered

The Cracker 2 spreadsheet helps with finance. We use a formula for allocating the money by multiplying the number of pupils in a subject, by the number of periods they have, by a weighting factor that varies from 1 for Junior Science to 2 for A level work. This is then totalled across all the years and the percentage of the capitation is then given to each subject. Graphs can then be drawn, and the standard "What if calculations done. It is a very powerful package, and the only drawback is that it is a little slow. The new version claims to be 50% faster

Lalso discovered a bug in early versions which meant that despite its sophistication it could not draw a pie chart for the numbers 1, 2 and 3!

For set lists I had relied heavily on Microscan, so I urgently needed a database for the Amstrad. I wrote to all the companies who had one on offer then, outlining the facilities that I wanted. It was with some surprise that I found that none were exactly what I wanted, I tried Sagebase, but it is really only for a double drive machine because of the number of times that you keen having to change discs. Next was Saxon Computing's Microfile, but it would only sort on one field, not two or three. This means that the database has to take a list of names and sort them into classes first of all then alphabetically within each class of instance.

Success at last

I was resigned to waiting until something else came along when I spotted AtLast. It certainly seemed to do the job so in desperation I bought it.

There then began the sort of love-hate relationship that I had had with Wordstar. The first manual was really heavy going, not helped by the dark blue print on light blue paper. Whilst it was never incorrect, it was certainly brief, and in consequence I had to pore over a single sentence for hours to work out what it meant. It took me a long time, including talking to the author at an Amstrad show, before the significance of the definition of constant field as "A constant whose value will be selected from the elements of an associated field in the SYS record. Fields of this type are not permitted in the SYS record" finally emerged.

One word of warning - you must be fluent with CP/M, to get the most out of Atlast, and you need expanded 512k memory. The program is in two halves, one will fit into an unexpanded 8256 memory. (I have expanded two 8256's using Silicon City's kit which is excellent in instruction detail and speed of delivery).

On the other hand once you have built the database. AtLast provides a very user-friendly front end. I discovered this by using its simple mail merging facilities to enable my department staff to write reports.

These are designed so that the teacher is faced with a series of uncompleted sentences such as "His ability is" or "His homework is". They then have a series of words or phrases such as "excellent", "good", "average", "poor", "always done" or "not always done" to pick from. Pressing the first letter, then return, displays the whole word or phrase. The words or phrases to pick from are the constants and this is one of the most powerful features of At last.

It is also fast, giving near instant access to a record in several hundred. I was also surprised at how quickly noncomputer people quickly handled the program.

I then discovered the joys of exporting data out of the database in ASCII files, so that I could modify it by adding new fields, then putting the data back in. All versions of the manual carry the message "Although this method may seem clumsy and tedious, it is very powerful". A masterpiece of understatement! You definitely need CP/M here.

Another excellent feature is the ability to print out your data in unlimited (I think) formats, and this is why I use it rather than Campbell's Masterfile 8000. With reports I design

one screen display with help messages for the teacher, then Lorint this out as a proper report for the parents. These are often used as the basis of parents evening, so I produce summarised reports for the teachers to work from, just in case they say something different from what they wrote! I can also produce lists of boys who are getting adverse reports

So what of the future? LocoChar seems to show promise for drawing electrical circuit diagrams directly into worksheets. Atlast is being lined up for a full lesson by lesson analysis of our Junior science curriculum covering everything from apparatus to aims and objectives. Stock contol might be done. Now who would have thought that six vears ago?



SCIENCE report for ADAMS, Ricky Lee Teacher's name - WILLIAMS His ability is average and his effort is average. His practical work is average and his written work Wie behaviour to average. His howeverk to not alway We have been absent for 3 lesson(s). SCIENCE report for ADU-BAAE, Scott Teacher's name - HARDING His ability is poor and his effort is average. His practical work is average end his written work His behaviour is good. His howeverk is not always We had been absent for 2 lesson(s)

Worth it at last? For those who have the oir Atlast and are wondering if they

should spend £20 upgrading to AtLast Plus, I would say yes, but only set I don't feel that the improvements are such good value for money as the £20 spent changing from Loco 1 to Loco 2 is.

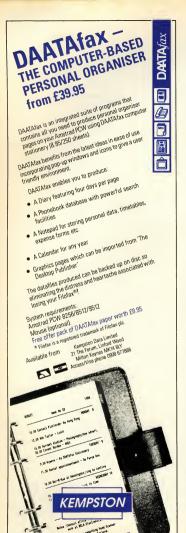
Grand Union

As well as being a teacher, I am also branch secretary for the Lewisham NASUWT, which is one of the teacher unions. LocoScript enables me to produce professional letterheadings and documents.

Minutes and agendas are easily written once a template is made, so a lot of the drudgery that goes with this sort for LocoMall, until a certain Mr Baker

introduced legislation that we are not entirely in agreement with. It's on order!

AtLast keeps my several hundred members in order. A database has the names, home and school addresses and telephone numbers of school representatives, plus one of the officers who contacts them. The excellent form writing with AtLast allows telephone contact lists, malling labels and checklists to be produced.



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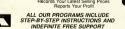
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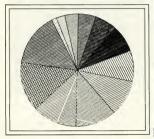
EVER DECREASING CIRCLES

Charles Pulteney concludes his look at graphics in BASIC with GSX

ou'll need to have typed in the listing UTILITY.GSX given last month. This does nothing by itself but sets up graphics functions you can use in other programs. Enter your special GBASIC as usual, load UTILITY.GSX and type in Listing 1. This is a routine that draws circles, pie charts and pie slices. The mathematicians amongst you will realize that lines 6060-6120 plot a series of points five degrees apart around the arc of a circle. Straight lines drawn between these points provide a reasonable approximation to the curve of a circle (the lines are actually drawn by the polygon GOSUB). This is now your circledrawing utility.

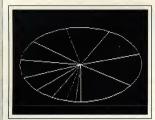
Listing 2 is all you need to draw any circle or pie chart. Furthermore, pie chart data will be automatically scaled with the size of each segment proportional to the sum of the data. In lines 10030 and 10080, the first two figures are the x and y co-ordinates (x1, y1) for the centre of the circle or pie chart. The third figure is the length of the radius, and the next is the number of segments. The data for each segment then follows. Each segment is drawn in clockwise order. Line 10060 is a clever way of automatically changing the fill pattern whenever a new segment is drawn (up to 12). Note that the slash is the integer division operator (press EXTRA and 1/2 twice). It is up to you to design your own segment labels! Unfortunately, you will find that the circle is not quite perfect. With large circles you will find that the radius at the top and bottom is slightly shorter than it ought to be. You will need to bear this in mind when drawing your labels.

Last month's introduction to GSX, the graphics drawing package supplied free with your PCW, left us all on the edge of our seats with bated breath and eyes agog. Now at last you can see some interesting and mindbogglingly useful applications: pie charts, bar graphs, circles...



Further reading More details on GSX can be found in The Amstrad CP/M Plus' by Clarke and Powys Libbe, but it's a real hacker's book, and won't enlighten you nless you're familiar with ler. The same can be said for Amstrad's 'CP/M Plus Handbook', by Digital Research published by Heinemann at

- 6000 'DRAW CIRCLE/PIE CHART/PIE SLICE (LISTING 1 (PART 2))
- 6010 'SET beg AND fin TO START AND FINISH ANGLES OF SEGMENT
- 6020 a=1:count=3:cx=x1*x.scale#:cy=y1*y.scale#
- 6030 pi=3.141592:DEF FN rad(d)=d/180*pi
- 6040 rax=(radius*x.scale#+radius*y.scale#)/2:rax=rax-(rax*1/10)
- 6050 IF no.segs%>1 THEN pts.in%(1)=cx:pts.in%(2)=cy ELSE count=1:a=0
- 6060 FOR i=beg TO beg+fin STEP 5
- 6070 pts.in%(count)=ptr*rax*SIN(FN rad(i))+cx
- 6080 pts.in%(count+1)=rax*COS(FN rad(i))+cy
- 6090 count=count+2:a=a+1:NEXT i:np%=a+1
- 6100 IF slice% THEN pts.in%(count)=cx:pts.in%(count+1)=cy:GOSUB 1000:RETURN
- 6110 pts.in%(count)=ptr*rax*SIN(FN rad(beg+fin))+cx
- 6120 pts.in%(count+1)=rax*COS(FN rad(beg+fin))+cy:GOSUB 1000:RETURN
- 10000 CIRCLE, GSX (LISTING 2 (PART 2))
- 10010 'PROCESS CIRCLE/PIE CHART DATA
- 10020 fin=0:beg=0:tot=0:RESTORE 10080
- 10030 READ x1, y1, radius, no. segs%: DIM div(no. segs%)
- 10040 FOR i%=1 TO no.segs%: READ div(i%): tot=tot+div(i%): NEXT i%
- 10050 FOR j%=1 TO no.segs%:fin=ROUND(360*div(j%)/tot)
- 10060 fill%=1:sty%=(j%-1)\6+2:idx%=(j%-1) MOD 6+1
- 10070 GOSUB 6000: beg=beg+fin: NEXT j%: RETURN: 'TO LINE 210
- 10080 DATA 40,40,20,12,1,2,3,4,5,6,7,8,9,10,11,12



To draw a circle, the number of segments (no. segs%) should be set to 1 and the one item of data to 360. Do not forget to set fill% in line 10060 to 0 if you want a hollow circle. Save the program in the normal way and run it by merging with UTILITY.GSX and Listing 1.

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Listing 3 draws a pie slice. The first two figures in line 10060 are the x and y co-ordinates for the point from which the slice is drawn. The third figure is the length of the radius, and the next two are the beginning and finishing points of the slice in degrees (ranging from 0 to 360). Use fill% in line 10050 to set the fill. Save the program in the normal way and run it by merging with UTILTYGSX.

Listing 4 draws a bar chart with a main title and labelled x and y axes. It may seem complicated, but this is because the program is designed to scale all data automatically, as well as to label axes, regardless of the size of the graph and the character height of the text selected. You will probably



```
10000 'SLICE.GSX (LISTING 3 PART (2))
10010 'PROCESS PIE SLICE DATA
10020 slice%=-1:fin=0:beg=0:RESTORE 10060
10030 READ x1,y1,radius,beg,fin
10040 fin=fin-beg:fill%=1:sty%=2:idx%=2
10050 GOSUB 6000:RETURN:'TO LINE 210
10060 DATA 40.40.20.10.55
```

```
10000 'BARCHART.GSX (LISTING 4 (PART 2))
10010 'SET UP VARIABLES AND DRAW VINDOW
10020 RESTORE 10380:gap1=1:gap2=2:gap3=3
10030 READ x1,y1,x2,y2,nc.ocls,max.col.xigt%,yhgt%,title%,title$,y.labl$
10040 GGSUB 2000:col.hgt=(\(\gamma\))2-y1.No.75)/max.col:col.wth=(\(\gamma\))2-10050 DIM bar(no.cols):xx1=x1:yy1=y1:xx2=x2:yy2=y2
10060 'DRAW y AXIS SCALE AND MARKERS
10070 hgtw-yhgt%:GSUB 8100:GSUB 8800:nxt.stp=max.col/5:mark =nxt.stp
10080 FOR 1%=1 TO 6:mes$=STR$(mark ):mes$=RIGHT$(mes$,(LEN(mes$)-1))
10090 x1=xx1-(gap2+((LEN(mes$))*(ch.wth/x.scale*))
```

```
10100 IF :1%=6 THEN left.side=x1
10110 yl=yl+(nxt.stp*col.hgt):hgt%=yhgt%:GOSUB 3000
10120 xl=xxl-gapl:yl=yl:zx-x2:y2=yl:GOSUB 4000:mark =mark +nxt.stp:NEXT
10140 'PRAY AXIS LABEL
10150 xl=left.side=gap2:hgt%=yhgt%:dir%=00:GOSUB 8100:GOSUB 8800
10155 llxout.box=xl-(gap2+ch.hgt/y.scale#)
10160 yl=yyd=yyl:yyl=yl-(claft(y,labib)*ych.wth)/x.scale#):yl=yl/2:yl=yl+yyl
10160 yl=yyd=yyl:yl=yl-(claft(y,labib)*ych.wth)/x.scale#):yl=yl/2:yl=yl+yyl
10170 mes=y.labib:dir%=00:hgt%=yhgt%:GOSUB 3000
10160 'PRAY MAIN TILE
10190 hgt%=title%:GOSUB 8100:GOSUB 8800
```

```
10200 x1=11xout.box:x1=x1+((xx2+gap2)-(x1+((LEN(title$)*ch.wth)/x.scale#)))/2
10210 y1=yy2+gap3:mes5=title$:GOSUB 3000:uryout.box=y1+gap2+(ch.hgt/y.scale#)
10220 'DRAW x AXIS LABELS
10230 hgt%=xhgt%:GOSUB 8100:GOSUB 8800:x1=xx1:y1=yy1-(gap1+(ch.hgt/y.scale#))
10240 11yout.box=y1-gap2:RESTORE 10400
10250 FOR i=1 TO no.cole:READ mes$
10260 x1=x1+(col.wth-(LEN(mes5)*ch.wth/x.scale#))/2
10270 hgt%=xhgt%:y1=y1:GOSUB 3000:x1=xx1+(col.wth*i):NEXT
10290 'DRAW (AND FILL) BOXES
10300 x1=xx1:y1=yy1:RESTORE 10390
```

find it easier to follow this description of the key elements of the program if you type Listing 4 in now and run it.

The core of the drawing is the window in which the bars are drawn. If you look at lines 10003 and 10380 you will see how the dimensions of the windows are set. The first four limes in line 10380 provide the lower left and upper right co-ordinates of the window. The next two items in line 10380 specify the number of columns and the value of the largest column. The largest column will always extend to 75% of the height of the window (change 0.75 in line 10040, I you do not like this), and the other columns will automatically be scaled accordingly (by col.ng). Lines 10076-11020 draw a scale on the y axis that is related to the value of the largest column (nxt stp.). Six proportional gradations are always drawn, the fifth of which is equal to the value of the largest column.

The next three items in line 10380 provide the values of the character heights for the x axis text, the y axis text and the main title. The last two items are the main title, and the title of the y axis. Much of the complexity of the program is due to the fact that the titles and scales are drawn around the window. It is therefore necessary to keep track of the space that is used to draw text. This is not difficult to do because you can ask GSX to tell you how much space (width or height) is taken up by the characters of a particular character height setting. For example, in line 10190 hgt% is set to the height of the main title text and a call is made to GOSUB 8800. This call provides the value of the width of each character (ch.wth), which when divided by x.scale# is used in line 10200 to calculate the space taken up by the title. This information is then used to print the title in the centre of the large box at a position of gap3 above the top of the window. Similarly, ych.wth/x.scale# is used to centre the title of the y axis along the left side of the window (line 10160). The same technique is used to centre each x axis label on its bar (line 10260).

If you now change the first nine values of line 10380 to DATA 15, 15, 35, 25, 12, 8000, 1, 1, 1, 1 you will find that a perfectly scaled mini-graph has been produced from the same data. In future, the effort required to produce this type of graph is minimal. You just change the relevant DATA lines!

Listing 5 introduces one other technique. Lines 8400-8710 of UTILITY/SSX after the colour of fill, text, lines and line markers. Setting colour% to 0 has the effect of writing in white! and, for example, enables you to place "white" text on a black background, or to create a "white" shape within a filled shape. There are a number of points to note. First, when using the fill colour option, you have to specify the same fill setting that was used in the first place (line 10020). Second, the line effect is difficult to see as the line is so narrow. Third, text, line markers and lines written when colour% is set to will not appear on the screen. Finally, do not lorget to set colour% back to 1 and call the relevant GOSUB when you finish!

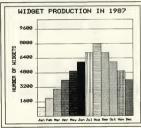
9512 owners beware

The GSX driver as slipped with the 6512 is a slipphy improve year and the one document of the control of the co

disappear. This problem can be overcome by using the following fines:

10552 xi=linest, box : yi=linet, box : ponub 4000 : return
The line function is being used to draw the sides of the box. The variables 'linet' and the sides of the box. The variables 'linet' and 'linet'



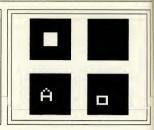


```
10320 FOR 1%=1 TO no.cols:READ bar(J%)
10340 x2=x1+col.wti;y2=y1+tbar(J%)*col.hgt)
10340 f111%=1:sty%=(J%-1)\0.0+2:idx%=(J%-1) MOD 6+1
10350 6GSUB 2000:x1=x1+col.wti.NEXT J%
10351 'DRAW OUTER BOX
10352 x1=11xout.box:y1=11yout.box:x2=xx2+2:y2=uryout.box:
6GSUB 2000:RETURN
10380 DATA 27.5,20,72.5,65,12,8000,400,600,800,WIDGET PRODUCTION
IN 1987,NUMBER OF WIDGETS
10390 DATA 1000,2000,3000,4000,5000,6000,7000,8000,7000,6000,
5000,4000
10400 DATA Jan, Peb, Mar, Abr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec
```

10000 'LISTING5.GSX (LISTING 5 (FART 2))
10010 x1=30:y1=75:x2=45:y2=90:fil1x=1:styx=1:GGSUB 2000
10020 x1=35:y1=80:x2=40:y2=85:cclourx=0:GGSUB 8410:
fil1x=1:styx=1
10030 GGSUB 2000:cclourx=1:GGSUB 8400:'WHITE FILL
10040 x1=30:y1=55:x2=45:y2=70:fil1x=1:styx=1:GGSUB 2000
10050 cclourx=0:GGSUB 8510:x1=34:y1=90:hgtx=2000:mes8="A"
10060 GGSUB 3000:cclourx=1:GGSUB 8500:'WHITE TEXT
10070 x1=30:y1=55:x2=45:y2=50:fil1x=1:styx=1:GGSUB 2000

10080 colour%=0:GOSUB 8610:xi=32:yi=40:x2=43:y2=40:pety%=4 10090 GOSUB 400:colour%=1:GOSUB 8600:VHIIE POLYLINE 10100 xi=30:yi=15:x2=45:y2=30:fill%=1:xy=1:GOSUB 2000 10110 colour%=0:GOSUB 8700:xi=35:yi=20:zeze%=2000:tpe%=4 10120 GOSUB 5000:colour%=1:GOSUB 8700:VHIIE POLYMARKER

10130 RETURN

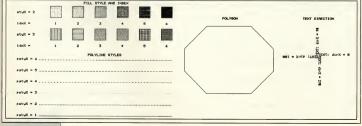


Last month

These listings will mean nothing unless you have typed in the utility given last month. If you want to get hold of last month's issue, back numbers are available from our Old Barn address for £1.75.

10000 REM **** DBMO2. GSX **** 10010 REM*****FILL STYLE AND INDEX DEMO***** 10020 x1=30: v1=91: hgt%=400: mes\$="FILL STYLE AND INDEX": GOSUB 3000 10030 x1=0; y1=87; hgtx=400; mmes="etyX = 2"; GOSUB 3000 10040 x1=0; y1=77; hgtx=400; mmes="etyX = 3"; GOSUB 3000 10050 nxt. stpX=0; 11X=85; urx=90; sty1eX=2; GOSUB 10260 10060 nxt.stp%=0:11%=75:ur%=80:style%=3:GOSUB 10260 10070 REM: ****POLYLINE STYLE DEMO**** 10080 x1=32:y1=68:hgt%=400:mes\$="POLYLINE STYLES":GOSUB 3000 10090 nxt.stp%=0:FOR i=1 TO 6:psty%=i 10000 nxt.stpx=0:rbx =1 T0 5:peryx=1
10100 x1=0:y1=40+nxt.stp%:hgt%=00:mess="pety% ="+STR\$(pety%)
10110 GGSUB 3000:x1=10:y1=40+nxt.stp%:x2=70:y2=y1:GGSUB 4000
10120 nxt.stp%=nxt.stp%+5:REXT
10130 REM*****TEXT DIRECTION DEMO***** 10140 x1=55: y1=36: hgt%=400: mee\$="TEXT DIRECTION":GOSUB 3000 10150 RESTORE 10330 10150 FOR 1=1 TO 4: READ dir% 10170 x1=60:y1=20:hgt%=400:mes\$="TEXT: dir% ="+STR\$(dir%)
10180 GOSUB 3000:NEXT 10190 REM*****POLYGON DEMO**** 10200 x1=17:y1=33:hgt%=400:mes\$="POLYGON":GOSUB 3000 10210 np%=9:RESTORE 10340 10220 FOR i=1 TO np%+2 STEP 2 10230 READ pts.in%(1):pts.in%(1)=pts.in%(1)*x.scale#
10240 READ pts.in%(1+1):pts.in%(1+1)=pts.in%(1+1)*y.scale#
10250 NEXT:GOSUB 1000:RETURN: 'TO LINE 210 10260 FOR 1=1 TO 6 10270 x1=15+nxt.stp%:y1=11%:x2=20+nxt.stp%:y2=ur% 10280 idx%=i:fill%=1:sty%=style%:GOSUB 2000 10290 x1=16+nxt.stp%:y1=11%-3:hgt%=400:mes\$=STR\$(1):GOSUB 3000 10300 nxt.stp%=nxt.stp%+10:NEXT 10310 x1=0:y1=11% 3:hgt%=400:mee\$="idx% =":90SUB 3000-10320 RHTURN 10330 DATA 0,90,180,270 10340 DATA 10.0.0.10.0.20.10.30.30.30.40.20.40.10.30.0.10.0

This is a demonstration listing to show off some of the effects possible from last month's UTILITY listing.



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DESIGNER STUBBLE

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John Evans (0225 315131) All PCWs (for the Desktop Publisher only). Designer Stubble (Issues 1 and 2) is an unusual and

interesting piece of 'secondary' software which serves as a definitive guide to newsletter production using Database's The Desktop Publisher. The aim of this disc-based

guide to the theory and practice of electronic desktop publishing is to show how you can use inexpensive software on the humble PCW with excellent results just so long as you use it wisely

Issue 1 is a 46 page newsletter which sets out to educate The Desktop Publisher user in general publishing skills. Cleverly avoiding a stodgy tutorial approach. Evans carries out a very detailed and impartial evaluation of The Desktop Publisher, of the world of computerised DTP in general and its relationship to established methods of typesetting



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and editorial procedures. The only comment he made that seems a little open to debate is his claim that The Desktop Publisher manual is an excellent example of succinct, to-thepoint software documentation.

The chapter on Newsletter Design and Production is very informative and covers the practicalities of organising an efficient assembly line for a multi-page Desktop Publisher newsletter. There is also a full breakdown of the way in which the Designer Stubble 'newsletter' was put together.

The newly-released Issue 2 offers scope for output enhancement through the use of alternative, high-definition, functional fonts that are suitable for any kind of publication. Used on its own, he says, the program only offers a fairly limited range of 'off-the-peg' graphics; you have to go beyond its limits to fully exploit the capacity of the PCW as a desktop publishing tool. There is detailed description and examples of the new fonte

He describes how you can transfer sophisticated Stop Press material into Desktop Publisher format using Database's MasterScan file-conversion software, an attractive combination since most mouse-owning Deskton Publisher users have the AMX model which is ideally suited to Stop Press

The great thing about Designer Stubble is that you can modify the files on the component discs as templates to suit your own purposes. Evans' time spent familiarising himself with the workings of the various programs he mentions represents a significant shortcut for other users.

All in all, Designer Stubble is an excellent complement to The Desktop Publisher and is guaranteed to answer any questions you might have, and even more that you don't. about newsletter production.

CD DRAW

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Cd Draw has been designed to reproduce scale drawings. dot for dot, from the screen to the 8000 dot matrix printer. The manufacturers stress, however, that unlike most graphics packages, which often produce a perfect square. say, on screen and a slightly distorted one on printout, cd Draw will proportion the drawing on printout even though it may look slightly odd on screen (principally because the dots on the screen are further apart up and down than they are across)

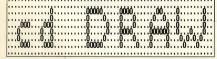
It consists of a number of single (or double) keypresses which enable you to move the cursor (in this case, a large arrow-head) around the screen horizontally, vertically or diagonally. Pressing one of the four arrow keys will advance the cursor one millimetre in the appropriate direction; holding down the ALT key while moving the cursor will advance it ten millimetres at a time.

The program offers a number of drawing utilities on which you will probably have to rely quite heavily because without them you can only draw straight lines. They're accessed at any time by pressing f7 and will enable you, among other things, to produce arcs, circles, dashed or spotted lines, measure the distance between two points on the screen, fill in spaces, draw ellipses, load, save and set drawings to scale

Unfortunately, using these utilities does tend to be quite hard work. If you want to draw a circle, for example, the program will ask you how many steps you want to complete it in. Producing as smooth a curve as possible necessitates quite a number of steps - say, 36 or so. The trouble is, the program will pause after each step, regardless of whether you want it to or not, to allow you to make adjustments. Producing anything remotely circular becomes extremently tedious because you have to keep restarting the program after every step (represented on screen by the merest millimetre)

Another of the program's major flaws is the difficulty you have in acquiring any degree of precision. Admittedly, the large arrow head (which rapidly begins to assume the appearance of a major blot on the landscape) can be suspended so that you can see exactly where the line you are drawing begins (or ends). Even so, overshooting your destination is something which tends to happen with monotonous regularity. To make matters worse erasing is quite a complicated procedure - especially when it comes to cancelling diagonal lines. Documentation is supplied on disc, and you have to print it out beforehand.

Cd Draw has its limitations both in accuracy and versatility. It will probably prove a useful tool for anyone wishing to reproduce relatively simple drawings, like logos, for instance, but if something more complicated is called for, you might well be better off sticking to a desktop publishing



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CLEAN

Beginner's guide to the spreadsheet: part 8 of the Mini Office tutorial series. Rob Ainsley spreads the word

The Mini Office suite comes with a very powerful all-purpose spreadsheet, which as you know is 'one of the most powerful programs a business or computer user can possess'. So, what exactly is it?

Short cut to happiness

Any selection from any Mini Office menu can be selected just by pressing one letter, usually the first letter. To see which letter to press, press [+] to hide the list of letters, press [-]. For example, in the opening menu S selects the Spreadsheet without you having to use the cursor and (RETURN) keys.

Sort of annoying
The only major drawback with
Min Office's spreadsheet, if
you're trying to choose between
it and another program, is that it
can't sort data, nor can if export
or import data (so you can't sort
data externally with, say, a
BASIC program). SuperCalc and

DTP note

Cracker will though.

You may end up deciding that its cheapen to photocopy or use a steroid duplicator (hence no photos). With the above spreadsheet, just press (17) assed on costs of 35p par A3 sheet photocopying, and C3 per A4 sheet for cutting the steroids electronically just paper costs of 25,50 per 500 A4 for duplicating, the formula in cell F7 to photocopying is cell F7 for phot

"cplaning spreadsheets is a problem. Think up an example problem simple enough to explain in two do it of the the state of the state of

So, imagine you're preparing a desktop publication – a parties for club magazine, perhaps. How much are you going to charge for it? It depends on many factors – how much each copy will cost you, how many sales you lose as you raise the price, and how much profit, if any, you intend to make.

Here are some figures based on our local High Street printers in Bath for camer ready, copy — ie. the pages are already laid out, perhaps prepared under a desktop publishing program, or with LocaScript and Letraset for headlines. One sheet of A3 printed both sides — ie. four pages of A4 (this page is on A4) — costs £43 for 100 copies, but thereafter each additional 100 copies is only £7.95. Each photograph costs £10, and VAT is not included. If you intend to make no profit, how much should you charge if you expect to sell 100 copies? Or 5007 or 2000? What's the



optimum cover price which will bring in enough money but not deter buyers? First you have to decide on some sort of table layout for juggling your figures in. Suppose you decide on 12 pages of A4 – ie. 3 pages of A3 – with four photos, selling four hundred copies. Say 60p for the cover price and 250 copies will be sold; all you want to do is break even. You'rd net something like this:

cell

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No. pages A4	12	Cover price	.60
No. photos	4		
No. printed	400		
		TOTAL COST	?
No. pages A3	3	INCOME	?
Probable sales	250	PROFIT	2

You can work out the total cost, income and profit (or loss) from the figures according to the prices above – but what it its unsatisfactory? (In fact you get a loss of \$120)! You have to start again with different figures – say you put the price up to 95p and only have 8 pages... with a pencil, paper and rutber, axivily ledicious – you! These to keep changing figures until you get the sums right. With Mini Office's spreadsheet, dead easy.

Clean sheet

Run up CP/M and at the As prompt insert side 2 of your Mini Office disc and type CFFICE[RETURN], selecting 'Spreadsheet' from the main menu and 'Edit data! from the next. You don't actually have any data at the moment of course.

You see a screen with A, B, C etc. along the top and 001, 00, 003 etc. down the side. These are references to 'cell numbers', similar to grid references on a map. The cursor will be in cell A1, and you can move it with the cursor keys to the right into A2, then down into B2, down and across two into D3 and so on. You can see which cell you're in at the top left of the screen.

The idea is that you can put text or numbers into these cells, then tell other cells to show results of calculations based on the figures in cells elsewhere – for example, cell B6 might hold the sum of figures in cells B1 to B5.

First you want a title. This can go anywhere but a good place might be cell B2, not too close to the top and side axes. Cursor there and type the title — wet wang Partial News or whatever. When you finish with [RETURN] you see that it won't fit into the cell — what you can do is to make the lext you've typed and roverflow string 'which will flow into the neighbouring cell. In cell B2 yep (ALT)s — then type command to tell Mini Office to overflow your text — then type the title again. It spills into the next cell giving you a full title.

Now you can set up a table similar to the one you sketched out on paper. In cell B4, enter No. pages A4; in B5, No., photos; in B6, No. ceptes; in B8, No. sheets A3; in B10, Sales. All these get truncated – they won't fit into the cell – but instead of making them overflows, you can widen the column. With the cursor in the column, just press (ALTI) and then the cursor to widen or narrow the column, finishing with [RETURN]. The minimum width is four characters.



The numbers to accompany these headings can go in cels C4 to C10. You might narrow this column to four characters for neathers as a show. Column D can be blank to give a bit of space; in cell E4 you can put the text Cover price, E7 TOTAL COST, E8 INCOME and E10 PROFIT. Widen it in suit

Of course, you can put any text anywhere you like, but the above arrangement corresponds roughly with the table initially set out. To edit a cell, move to it and press [17]; to delete a cell, move to it and press [17].

Cell, by, cell

Now the number of pages, number of photos, number of objects one expect to sell and cover price are all to be decided by you; the number of pages of A3 involved, the consequent price, income and profit all depend on the figures you've put in. You can immediately type in any figures you like for the number of pages, photos and so on — just move to the relevant cell and type the number, 12 for the pages in cell C4.4 for the number of photos in cell C5 etc.

Min' Office automatically puts two decimal places after seach, but each figure in this column is a whole numbro can tell it to display only the whole number part by pressing [ALT]) and the cursors to raise or lower the number of decimals. So pressing the left cursor twice has the desired effect. All the numbers in the column are affected (so the initial leyout, with all whole numbers in one column, and all prises, which have two decimal points to display pence, weart outle arbitrary!)

wasni quie admiarly in The number of pages of A3 will always be the number of A4 pages divided by four. Here you want a formula: you want whatever is no cell C4 divided by four. Move to cell C8 and press [15] to Introduce a formula then type c4/4 (ie. Whatever is in cell C4 divided by four) followed by [RETURN]. After a short pause you see a 4 appear in cell. If you move back to cell C4 and make it 24 pages, you see the number of A3 pages change to 6 automatically.

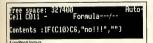
The income is easy – cover price times copies sold. More to cell F8 and press [15], giving the formula as cilo*e4, ie. humber of copies sold in cell C10 times cover price as shown in cell F4: The result appears and is updated if you revise the cover price or the expected sales. The profit is easy too – just the income (as shown in F9) minus the costs (as shown in F7). Move to F10, press [15] and enter 16=£7. It doesn't matter that some figures haven't been filled in yet – Mini Office treats them as zero.

Now the total cost is \$4.3 for the first 100 copies you want inprind, then £7.95 for each subsequent 100. All multiplied by the number of A3 sheets. Plus a tenner per photo. The formula is therefore a bit involved, but believe me it's \$\preceq (43 (\prec=10)^3 \cdot 7.95/100) + (\preception 5.91). This goes in cell F7. When you [RETURN] you see the total cost calculated for you, and if you change the number of copies to be printed or the number of sheets the cost is updated automatically.

VAT's enough arithmetic - Ed.

Ah, wait a minute – this has left out VAT (another 15%). The formula in F7 must be edited.

Move to F7 and press [f7] to edit. To make something a VAT-inclusive price, multiply by 115%, or 115/100. Put a bracket at the beginning and end and stick on *115/100. The price is now VAT inclusive. (To get just VAT you'd



A dash of conditioner

in a formula you can enter statements like 'If something is true, do this, otherwise do that' The 'do this' can be text to be displayed – enclosed in quotes – or a cell reference or another formula.

For example, you can't sell more copies than you print. Therefore in the cell C11, underneath Seles', you can display a waming if the number of sales in C10 is bigger than no copies' as shown in C6. In cell C11 enter the formula £f (c10-c6, "no1117,""), in English this as you fit the number in C10 is bigger than that in C6, print "no!!!", otherwise print nothing'.

Or, you can check that the number of pages of A4 is a multiple of four – you're getting it printed on double-sided A3 paper

which necessitates a finished product of 4, 8, 12, 16 etc. pages. You want to tell C8 to display the number of pages A3, or a rude message if the number of pages A4 is not expecible.

One way of doing this is with a formula like if (c4=4 or c4=8 or c4=12 or c4=16 or c4=20, c4/4, "no!!!") or, in English, "if c4 is 4, 8, 12, 16 or 20, put into the cell the value of cell C4 divided by four – otherwise, print "acrill".

Mathematicians will be squirming with discomfort at this and preparing more elegan formulae using the "int" function which rounds things down to the nearest whole number, like if (int (c4/4)*4=c4, c4/4, *no!!!") – ignore them.

multiply by 15/100, to get a VAT exclusive price from a VAT-inclusive price multiply by 20/23. Adding cells is just done by formulae such as c5+c4+f7 and so on).

Now the fun begins. You can go back and change any figure – the expected sales, the cover price, the number of photos, the number of photos, the number of pages – and the consequent total cost, income and profit appear almost instantaneously

Suddenly it's easy to fine-tune your figures to get the best balance between breaking even and not setting too high a price.

To save your sheet, [EXIT] then select 'Load/Save' and 'Save all data' to the appropriate disc with a suitable name. You can load it up next time similarly but selecting 'Load'.

Next month: you may have thought this month was powerful, that's just peanuts compared to the functions introduced next month. It'll also show you how to add a column of figures if you have no calculator handy.



Where to go

Mini Office is available from Database (0625 878888) at 529.95, and jolly good value too. There's a good futorial book by John Hughes covering all the programs in the suite. It costs £11.95 and is available from Sigma on 0625 531035.

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ontent	s :0.95			
JA FULL	LANGE BRANCHER STREET	Danie Din	AMARI EMBARAMIANIA	Farmin G.
Na.	Wetwang Parish	Neus		
	No. pages A4 No. photos	12	Cover price	0.95
	No. copies No. pages A3	250	TOTAL COST	235.49 237.50
09 16	Sales	250	PROFIT	2.01

ASSEMBLE HERE

Andy Wilton looks at HiSoft's updated program development package Devoac 80 Mk II

If you want the best language for writing fast, compact programs. assembly language wins hands down. When it comes to which set of assembly language tools to go for, on the other hand, it's very hard to find a clear winner. The choice of text editor, assembler and debugger - the three being collectively known as a development system - is crucial: without the right set of tools you'll find assembly language punitively difficult to program in. All PCW owners have a development package - there's one supplied with the machine! The utilities MAC, RMAC and SID together provide you with enough assembler and debugging power to get programming, but there's a catch: they're written for the Intel 8080, a precursor of the PCW's Z80, so they can't handle many of the Z80's more powerful commands. They're also a bit short on documentation!

DEVPAC 80 Mk II

£49.95 HiSoft (0525 718181) All PCWs HiSoft's Devoac80, for a long time the PCW backer's first choice of development system, was overshadowed last year by Arnor's impressive Maxam II, now slashed to £50 to compete further. This Version 2 of Devoac is HiSoft's reply: it's substantially upgraded from the original, with a new debugger, and a Mini Office-style main menu to run the individual utilities or your own finished programs from. But how does it measure up as a whole?

HDE. Devoac's text editor, has a rather antiquated feel to it. Like its predecessor ED80, it belongs to the WordStar tradition of text editors. Editing a file is a clumsy business unless you're familiar with WordStar conventions. NewWord and BrainStorm users will feel more or less at home, but anyone else (ie. most people these days) will need to spend time creating a SETKEYS file and learning some of the more obscure key combinations. Even the cursor keys have to be defined before use, and simple tasks like saving your file and returning to the menu take three-key, totally unmemorable command sequences. For most users. HDE will be an irrelevance. If you know WordStar codes you'll probably own WordStar or NewWord already, and prefer them to this pale imitation. If you don't you'll find HDE extremely hostile, and most likely end up sticking with Protext or LocoScript

Pukka gen

The GEN80 assembler is the heart of the Devoac system. and in its latest version (v 2.06) it's a very powerful piece of work indeed. Expression handling in particular is first rate. with full operator precedence and parenthesis. Macro handling is excellent and inclusion directives can be nested up to four levels deep, providing plenty of encouragement to structure and organise your programming properly. More importantly, GEN80 is extremely flexible. At one end of the scale, experienced CP/M programmers will appreciate its ability to produce .REL files, a vital feature if you want to write your own RSXs. At the other, novices will find its hex output facility an enormous help: write your code, assemble it into Mallard Basic DATA statements rather than a .COM file, and you can MERGE it into a Basic program with the greatest of ease. What a painless introduction to assembly

Rounding off the trio of tools, the new debugger ProMON is quite an advance on HiSoft's older MON80 but still falls some way short of the Maxam II standard. At heart it's a command driven affair, with disassembly and memory exploration being controlled by typing in short mnemonics -MA to set the memory viewing address, SB to search for a byte sequence and so on. You can move a cursor round the disassembly or memory windows and shift your view around that way, but it's a very slow process: Maxam definitely has the edge here. The debugging facilities themselves are powerful, with a nice set of conditional breakpoints helping you track down those elusive glitches. You can even set a global breakpoint condition, so that the program executes continuously but stops as soon as a condition becomes true. For those maddening times when you know what the problem is but have no idea where it is, this is precisely what you want. ProMON unquestionably looks very rough next to the Maxam monitor, but will be sufficient for most purposes. It's very far from idiot-proof however: exit the program while switched to an alternate memory bank and you'll crash the machine spectacularly!

The modules

Assembly language is a sugar-coated form of machine code, the native language of your PCW. Machine code Itself is an almost unreadable series of numbers, each one being an instruction or piece of data for the PCW's Z80 central processor chip. If you've ever used SID to look at the contents of a file. those hex numbers you see are machine code. Because these numbers are so daunting, most people use assembly language Instructions - a series of three- or four-letter mnemonics like LD (HL).87 and

SHLD LXI.3 - and convert them into corresponding machine code numbers using a program called an assembler. As well as the assembler you'll need a text editor to produce your program text (or source code) in the first place - most word processors can fill this role - and you may well want a debugger too. Sometimes referred to as a monitor (nothing to do with TV-style displaysl) a debugger is a tool that helps you find errors in your programs, or examine the inner workings of eone else's.

DEVPAC 80 MK II

- PLUSES
- ▲ Good hex facility for BASIC programmers
- MINUSES

3/5

▼ Unfriendly text editor

RANGE OF FEATURES PERFORMANCE

EASE OF USE DOCUMENTATION 8000 PLUS VALUE VERDICT 3/5

4/5

Bottom line

If you don't like the HDE editor you won't appreciate HiSoft's attempts at integrating the overall package, but GEN80 and ProMON are still perfectly usable from the command line. If you're after a slick, high-performance monitor and editor you'd probably do better looking at Maxam II. GEN80 is an excellent tool for beginners and high-flyers alike, however. If you only really want an assembler - and many people will -Devoac is well worth a look.

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JUGGLING CLUBS

The PCW can make running a club fun. Rob Ainsley, Sharon Bradley and a few 8000 Plus readers show you how...

If it hasn't already happened to you, it will do. You have 'a computer' so you're pressganged into doing the secretary's job for your local train spotting or hang gliding club.

Fortunately with the amount of software now available your PCW can handle everything: keeping membership records, looking after the accounts, sending out newsletters... you can do the work of a committee in just a couple of evenings' spare time a month. And it'il leave you and the other members fee to concentrate on spotting trains or hang gliding or whatever the real point of the exercise is.

he most obvious role for your PCW in a club is to handle all the paperwork – newsletters and membership databases for example. As this is the most tedious part of running an organisation this is just as well

But you can put it to a lot of other uses as well. Many PCW user dubs get free 'public domain' software over phone lines through their PCW plus modern and distribute it to their members; (pswich Fencing Club use their Amstrato to produce illustrated training manuals; the Spartan Sports Association have written themselves a program to calculate their circket team members' season and career everages;

History in the making



Gerald Gracey-Cox, regular 800 Plus reader, uses present-day technology in the form of his PCW 8512 to breaths life into the past and resurred; it. Kidlington and District Historical Society and the Oxfordshire Familiy History Association, of which he as key member, require dedicated use of his 8512 not just for storing the results of hard-won research, but also for producing quarterly



newsletters.

The Kidlington and District Historical Society alone has a paid-up membership of over a hundred historians. One of their prime interests has been in tracing the history of Kidlington's School Road and its various buildings, to which end the Society has published a fourth booklet in a series of historical guided tours.

of historical guided tours.

At the moment, Gerald says the Society is busy researching records, and entering into a database land tax returns on the parish between 1761-62 and 1785-1832. This coincides with another study they're doing, Kidlington Enclosure Awards, which charts the abolition of strip fields and the distribution of perish acreage. Matching

that to the land tax returns helps us trace all the comings and goings in the area and, of course, changes in the

ownership of land', says Gerald.
He uses Masterfile 8000 for storing all his records. 'A typical record', he says, 'consists of Occupier, Owners, Property, Map References, Sums of Tax Money and the dates in changes of land ownership – a good spread of all

sources, in fact'.

Gerald also makes interesting use of DCS Software's GenBase, a database which has been specifically designed as an aid to genealogical research. In it he records the subject's name, date of birth, name of parents and spouse. If we can, we're only too happy to supply visitors to Kidlington, whose lamilles originally came from Oxfordshire, with details of their family tree'.

GenBase costs £35 from DCS of Stockport (061 439 4841).



Selective printout - search text; Search start date; mome set Search end date; mome set

Scroggs Family Kidlington Oxon,

Civil War Service

Guy Aston, from Kingston in Surrey, has a two year old PCW 8256 and has been using it to assist him in his work with the English Civil War Society since day one.

The Society consists of two bodies, the King's Army and the Roundhead Asacciation, and strives to recreate many of the actions of the English Chill What Look place throughout the country-side curing that tumultuous period of history. We're at our busiest during the summer, says Guy. We recreate some of the more minor skimishes and dieges tought around country manor houses and castles at that time. In the whiter, we go to banquest and

The Society is self-funding and has a nationwide membership of 2000. Those who join will invariably support the party that held sway in their particular neighbourhood over three hundred years ago. Guy uses his 8256 to print out the regimental magazine (he belongs to Col. Robert Overton's Regiment of Foot – there are 30 regiments all in all) and the Society newsletter.

Ironically, perhaps, for a society which insists on leaving the twentieth century behind, Guy uses LocoScript 2 for the newsletters and 20-page quarterly magazine. The Rediviva, though is planning to upgrade his 8256 in order to accompdate LocoSpell. 'Since the Society has, in general, an annual turnover of £2000. I use Money Manager to keep a record of the regimental accounts and for monthly analyses of cash flow - and I strongly recommend it.' He uses FlexiFile as his main database for simple address lists, attendance registers, and for storing rank details of each regimental member, but would prefer to use Infomaster (' - If only it would work on the 8256!"). He's also busy

at the moment putting together an illustrated handbook for the regiment. It really want to start using desktop publishing and will buy a program soon. The only trouble is, where do you get a selection of clip art featuring pikemen and musketeers?"



SIEGE OF CARLISLE Attached to this paper is a sheet giving details of a facsimile reprint of Jefferson's 'Siege of Carlisle', Your author has one and would recommend it to you all - good value at £6,

Changed Rate

After deliberation at the recent Commissioner's Meeting, the £1 rate for new First page of the Society newsletter





the Bristol Guitar Society have even built up a performing database of their sheet music library. When you're looking for a piece of music in the catalogue, you can get the PCW to play you the first few bars of any entry through a musical interface, to see if it's the tune you're looking for!

Breaking down the tasks involved in running a club into categories gives you an idea of the sort of things your PCW can do, and what software, if any, you need to do it.

Letters begin

Letter and report writing is what LooScript was designed for. You can build up a library of templates for press releases, memos, notices, letters and so on. If you're not happy with the output from your 8000 dot matrix printer you upth to invest in a daisywhele printer (available for around 200 throughout the ads in 8000 Plus) and an RS232 interface (around 260). The output is equal to that of an electric typewriter.

LoosScript 2 enables you to use dalsywheel printers drectly you just plug the printer in the interface at the back of your PCW. move an appropriate file from one group to another on your start of day LocoScript 2 disc, and whenever you print it goes to the dalsywheel instead of the dot matrix) but at just 220 it's a must anyway – it really is much faster than I non 1.

LocoMail (£30, Locomotive, 0306 740606, 9512 owners have it free already) is a mail-merge program - a program which nominally writes a letter to all the names and addresses appearing in another file, but which has vastly powerful features besides. The idea is that in one file you keep a list of all your members' names, addresses, phone numbers, subs paid and so on. In another you write a letter marking out slots for the name, address and so on: 'Dear (name) - We note that your subscription of (sub) has not been paid. If you don't pay it we will send the boys round to your house at (address)...' and so on. LocoMail then writes a letter automatically to everyone in the specified list. You have options such as 'only print a letter if the subs haven't been paid and so on. With a little ingenuity you can even write routines to handle your accounts, calculate your financial position and so on, using its mathematical functions.

Regular newsletters to all members really keep a club going. You can survive perfectly well on LocoScript, or on the other hand you can buy a desktop publishing (or 'DTP') program.

In LocoScript you can't do text in two columns, but this needn't matter. If you want a smart multi-column prinduct with headlines bigger than pitch ten double, you'll have to resort to old-fashioned paste-up. You simply print out your

Data Protection

This requires all those who hold personal data on a computer (eg. name/address/details lists on a customer or society member database) to register as a Data User – details on form DPR1 available from post offices. Registration costs around \$40.

Fortunately, personal data held by an unincorporated members club (ep. a sports or recreational club which is not a registered company) if all the Data Subjects are members and none of them object is exempt – so you probably don't have to worry! (Quote from the Data Protection) Act:
Quidelines' issued by the Data

text as one long column, make up your headlines using Letraset rub-down lettering, then cut everything up with scissors and paste up the bits of paper on a sheet of thick paper. Your local printers or office stationers will be able to print from the result or make up stencils for your duplicator. You can also include line drawings and photographs though the latter must be 'screened' into dot patterns, which will cost a few pounds each (you can get an idea of costs by looking at this month's Mini Office article on page 26).

DTP OK

DTP programs are a bit more sophisticated (ie. difficult to use). You have a page mapped out on screen and can mark out boxes for text or graphics. Text prepared in LocoScript can be fed into the boxes and good DTP programs let you edit the text when it's in the box so you can get a good fit. In the graphics boxes can go pictures 'cut' from a supplied library of pictures and symbols on disc or images prepared under another graphics or DTP program. Most DTPs have some sort of drawing facilities and add-on graphics discs can be bought for them all.

When you've prepared your page you can print it out on your dot matrix printer (which you must buy separately if you have a 9512) and then get those pages printed or stencilled as above. DTP programs are good if you prefer onscreen page make-up to traditional cut and paste (which can be messy). Also the graphics don't need to be screened for reproduction as do photos.

Stop Press (£50, AMS, 0925 413501) is probably the best DTP package in terms of graphics (it also has the very sophisticated ability to automatically flow text round the contours of a graphic). Newsdesk International is good on graphics and text too (£50, Electric Studio, 0462 675666). The Desktop Publisher (£30, Database, 0625 878888) is a good cheap alternative if you're more concerned with text.

On the record

At its simplest, keeping membership records just involves a list of names and addresses and phone numbers - a straight text document in LocoScript. Better than a written list because you can easily update it and print it out.

However, for a few pounds' outlay and a few hours' work, you can make things very easy for yourself. A database program replaces those card-indexes your library used to have before they themselves got a computerised database. You store a collection of electronic 'cards' on disc. one each to a person. On each card you mark out slots for the name, address, telephone number and so on. The advantage of a computer database is that you can sort the cards into any order at the touch of a button - by name, by subs paid and so on. You can easily select just those who haven't paid or who haven't been to a meeting for a year. You can 'export' these, or all, the names and addresses - ie, make a new file on disc of just the names and addresses (or any combination of any of the items of information) for use in LocoScript, perhaps. In this way you can easily produce upto-date lists of all members, or just those who haven't paid. or just committee members, etc. in any order vou like.

LocoScript fans will be interested in

The Fence of Norfolk

Bill Vinyard is coach, secretary, treasurer and armourer of the Ipswich Fencing Club. which he began running ten years ago. When Amstrad announced the launch of the 8256, he knew it was the machine he'd been waiting for to help him cut through all the paperwork that managing any kind of club creates. 'The advantages over a typewriter were soon obvious: the ease of typing and correcting, the versatility of margin and tab settings and above all the ability to set the whole thing up correctly before printing out.

LocoScripts 1 and then 2 were of invaluable help to him, and Bill put them to rather unusual uses. 'It was handy for the choreography of demonstration fights. We do a fair number of these, not only using the modern weapons, but also weapons such as the long sword, sword and buckler, can be arranged for each fencer in columns. I think out these fights sitting at a desk and they usually need some modification when we come to try them out. The script can be amended with ease. reproduced on disc when required, and the 'End Page here' option is useful to ensure that a fencing phrase is not split over two pages

Bill hasn't yet ventured into the realms of databases for storing member details. though realises that it's a step he'll probably have to take quite soon. At the moment, he prepares the club accounts and annual financial reports with LocoScript and an electronic calculator. which he then checks over with a pencil and paper.

Bill particularly likes combining text with graphics for his illustrated notes, score sheets and publicity material. He

to create a heading alongside a drawing of a smallsword and saves it as a screen. Then using LocoScript, he designs files so that they will fit around the graphics. At present, he uses coloured papers and ribbons for posters and handbills, though is thinking of investing in a colour printer

'Time,' says Bill, 'is still my biggest enemy. Certainly the machine has speeded up the work, but it has also eliminated any chance of delegating any of my club duties. In none of the jobs could I possibly be replaced by anyone other than the proud owner of an Amstrad PCW.





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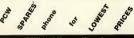
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The state of the s



Bell-lettres

Malcolm Wilson is the membership secretary to the Handbell Ringers of Great Britain. This association also has a 2000-strong national membership, is split into seven regions and has registered teams from Shetland to the Channel Islands, East Anglia to Northern Ireland. It keeps him fairly busy, so there's never a shortage of uses to which he can turn his Shortage.

uses to which he can turn his \$12.

He uses Cambase database for the purposes of recording details of member the teams. There are seven Regional Associations and membership to HRGB Associations and membership to HRGB of these associations. With 40 new teams joining every year, Luce Cambase to produce totals of sech category of membership for each region, address labels for distribution of the Society magazine, to produce the annual directory of teams, and to store details of handbell ranges for each team so that I can assess potential demand for music or

publications. It also produces lists of membership defaulters for chasing-up later. Malcolm's only quibble with Cambase is that it won't reproduce the musical sharp

He uses LocoMail to issue standard letters of welcome to new teams, keying in the relevant team number and regional code with address details. The letter is then printed out, incorporating personalized information such as to which region the team in question has been assigned along with details of the appropriate regional scoretary; 'it's been invaluable in saving me time because of the ever changing nature of regional secretaries from year to year – all Society officers are voluntary and elected annually.

All in all, Malcolm reckons that the PCW has been of invaluable help to him, especially in taking care of enquiries, writing articles for Reverberation, the society magazine, and generating publicity mallshots. Still, what can you expect from a society that concentrates on one of the fastest growing musical mediums today?

Cambase costs £50 from Camsoft (0766 831878) and is now available updated as Cambase 2.



LocoFile, a brand new database add-on to LocoScript. It's a card-index type database, compatible with LocoMail, which you can call up any time from within a LocoScript document. It should be available shortly and is fully previewed on page 10. Otherwise Masterfile 8000 (ESC), Campbell Systems, 0378 77762) or AtLast 2 (E40, Rational Solutions, 0566 81511) are both powerful easy-to-use databases.

Mini Office Professional, the celebrated all-singing-alldancing suite of programs from Database (£30, 0625 878888) has a good database program on II. It also has a word processor on which you can print malishest from your name-and-address database, a spreadsheet, a program to draw bar chatrs and graphs and even a communications package! The database is a good card-index type and has all the features you'd need to run a club.

Account for yourself

You can use a spreadsheet to handle your club finances. Also you can experiment with figures to see how best to cost out a project, such as how much to charge for a club newsletter, or how much the tickets for that concert you're staging should be (for a demonstration on Mini Office's spreadsheet, see page 26 this issue).

However, if you're not mad keen on learning how to use what can be a rather involved program, you can get good purpose-built accounts handling packages such as Money Manager Plus quite cheaply (£40, Connect, 01-743 9792). The advantages of PCW accounting are that your financial records are easily updatable and printoutable, and of course your calculations are all done and balanced for your

DIY programs

There's always something you want done that no commercial package can be quite right. Perhaps you want a cricket averages calculator for your team, a flight simulator for your hang slight simulator for your hang slight simulator for your hang slight chains a slight chain willing chains of a slight properties of the slight slight

Writing your own programs is addictive, great fun and gives you enormous satisfaction when you get it right – the only problem is you keep thinking of just one more adjustment to make it better...



A speciary while program for a music society to locate a piece of sheer music and play the first few bars for you to check it's the right one! (For those of you without sound, the first ten notes are BF#AGABF#GD#E.)

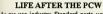
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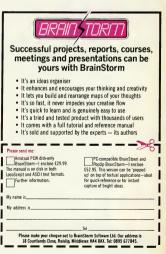
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DOUBLE T PATIENCE

£17.95 • Thurston Techniques (0395 277496) • All PCWs

The great thing about patience, to paraphrase Woody Allen, is you always do it with someone you respect and admire. But Double T Patience gives you an alternative: instead of playing patience by yourself, you play it on the PCW – er, by vorirealf

The program comprises of an assortment of six relaxing games, which you can then either play alone or against your computer. None of this Joyce nonsense: It calls itself Pat. Pat converses with you by a series of shot printed messages on the screen which is a relief because it's doubtful if you'd want anyone to hear what it's saying to you half the time anyway. Pat acts as a rather haughty narny always telling you'd fand as a scorekeeper-cum-commentator, a sort of cross between Edwina Currie and David Coleman.

There's something in Double T Patience for everybody, whether the hard nosed poker addict or the player who can still find hours of innocent enjoyment to be had from the memory game (er, what was it called again? Oh yes, Paris). This is the only one of the games available on Double T Patience where you have the choice of playing alone, with someone else or with Pat. Pat is not the most patient of hosts and is likely to inform you in distinctly brassed-off tones that it's waiting for you to record your choice if you take too long to enter your decision.

take too long to enter your decision.

Should you choose to play Pairs with Pat as your adversary, you can then choose which level of play. This ranges from impossible to the pushover (roughly, say, England Touring Team standard).

The other games are Poker Patience which involves inserting a random selection of 25 cards into a 5x5 grid in such as way as to try and create poker hands either across or down the grid. You complete running flushes (series of five consecutive cards of the same suit), straight runs and royal flushes. It all sounds rather reminiscent of the morning after a rather hot viridation.

Kuala Lumpur (so named beause it was the favourite pastime of the British Governor of Kuala Lumpur prison when he was interned there during the Second World War-what d'you mean, you're not interested?) involves capturing the four aces from 17 stacks of three cards at the log of the screen by strategically altering the structure of the stacks. You assign each one to a base at the bottom of the screen and then build upon them in consecutive suits in the hope that you will ultimately finish with four kings. However, rather like actors, all you over out are queens or knaws.

Foundation and umpire

This has a success rate of one in six but the odds become less reassuring as you progress further into Double T Patience. The success rate for One Foundation, for example, is one in twelve for the novice and one in seven for





Sharon Bradley and Tony Flangan releases for the card-playing ra

the expert. Thirty live cards are dealt facing upwards in seven columns of live, one on top of the other. The remaining cards are stacked face down and dealt out one at attime, face up. When this happens, one or more cards from the top of the columns are played on it in ascending or descending value irrespective of suit. When you're stuck, another card is dealt from the hidden stack. The trouble is that the kings and aces are respectively the highest and lowest cards, which means that only one card can draw either of them from their columns – the queen or the two. Suddenly the LBW rules of circkst seems os simple.

Not all the games require the same abilities from the player. Some require a fairly sharp memory (like Pairs), with others (for example, Foursome, the least satisfying game on the disc) it's largely a matter of luck. Some (if you don't want to get told to pull your socks up by Pat) really require you to know what you're doing (Poker Patience is a case in point). Don't feel too self-congratulatory when Pat informs you that you've just made a brilliant tactical move, because it usually precedes, by a split second, an impasse in the game.

The graphics are OK though of course you can't expect wide-screen technicolour from a screen designed to display text only. The program is written in BASIC and so can seem a little sluggish at times.

Double T Patience can be pretty addictive. So Thurston Techniques have thoughtfully built in to the program an escape exit to

which you have instant recourse as soon as you feel your boss looking over your shoulder. All you do is press the EXIT key and immediately a plausible looking bar chart entitled Annual Forecast for 1988 appears on the screen.



unfollonately, using the cursor keys to make all your selections and to move the cards around does begin to feel slightly laborious after a while. Notifier does Pat like you being to brutal with the old ENTER key. After a short while you realise that there has to be an easier way.

The only real advantage to using Double T Patience as

The only real advantage to using Double T Patience as opposed to an ordinary pack of cards is the automatic scoring facility and, of course, the feedback that you get from Pat. Other than that, there's nothing the computer does that you can't achieve with your common or garden deck of cards at home. Still Double T Patience will allow you to complete a move without causing any cards to side off the deep of the table.





ECARD

anagan, always game, look at new ing or adventuring PCW owner...

RETURN TO DOOM

£12.95 • Topologika (0733 244682)

All PCWs

In this game - the seguel to Countdown to Doom, released last year - we find ourselves once again on the planet last year — We find obtained so the again of the plant.

Doom, or Doomawangera to give it its complete title.

Doomawangera, as players of Countdown will be aware, is not the most hospitable of planets. How appropriate then that a spaceship carrying a gaggle of politicians should crashland just there. Surprisingly, it's your task to rescue

To complicate matters, Doom is inhabited by a band of



negade robots Distinguishing politicians from robots might ultimately lead to some difficulty were it not for the fact that only one politican has managed to survive. She goes by the unlikely name of Ambassador Regina and it is she that has been kidnapped by the recalcitrant robots You begin the

game in the control room of your space ship. Pressing the lift off button will do no good at all, which isn't surprising since you've only just landed! However, a brief exploration of the area surrounding your spaceship soon reveals many dangers. Go north west and you'll be crushed to mash by a not so funny Montipython. West lies a pair of giant gnashers which make Esther Rantzen look toothless. South takes you into the jaws of the Grobbler who, when not playing in goal for Liverpool, is 'the most dreaded creature in the universe

Such exploration marks the first stage of the game in which death, usually yours, is virtually continuous. This is one of the disadvantages of a game which seems so packed with puzzle that there's hardly a moment of respite. In this respect, Return to Doom is certain to please only the most dedicated of masochists.

Reductio ad absurdum

In most adventures, the player is rewarded with some time for exploration once a puzzle is solved. This deludes the players into thinking that they are making real progress in the game (sometimes delusion is no bad thing). Unfortunately, in Return to Doom, it seems that as soon as one puzzle is solved, there is another one to solve virtually straightaway. Despite this disadvantage, the puzzles themselves come in a a variety of forms – some verbal, some logical and some wildly absurd.

For when you are really stuck, a comprehensive hint sheet is supplied with the game, easily accessible by using the HELP command. Each hint comes in a set (of which there may be as many as four suggestions) some offering the final solution for a particular puzzle.

Whether hint sheets are a good thing is debatable. On

the one hand they certainly get you through some troublesome and frustrating moments. On the other, their presence is a little too tempting. In theory, they should only be used in cases of complete and utter suicidal desperation, otherwise they defeat the object of an adventure game altogether - to baffle, to infuriate and to destroy any remaining belief in yourself whatsoever

As well as helping with specific problems, the hint sheet provides useful information on what you can do with each of the many objects you encounter. For example, it will tell you what to do with a helium extinguisher, a tank of chlorine and a two-star rod - as if you didn't know!

The text permits verbose and normal modes, though not to the same sophistication of other adventures, say those from Infocom or Level Nine. Unlike many other adventures, the game has no EXAMINE command. Far be it from me to question the judgment of a programmer, but perhaps this might improve the feel of the game. We need only look at life in general to see just how essential such a word is.

Without the word 'examine' how would we ever get a true diagnosis of what's wrong with us? For a start, most of the medical profession would be out of work. As for my psychiatrist, how would he able to charge fifty pounds an hour or maintain a heated swimming pool?

Despite some minor flaws, however, Return to Doom is an entertaining text-only adventure in traditional style which doesn't take itself too seriously. It may lack the sophistication (and, for that matter, some of the pretensions) of more recent adventures but it still has a lot to offer.



Oops

apocalypse

Enhancing the playability of the game is an OOPS facility, which

Verbose. tautological.

longwinded bank of a large river in a streetside cafe. The smell of

DOUBLE T PATIENCE

GRAPHICS ADDICTIVENESS

2/5

LASTING APPEAL **VALUE VERDICT**

RETURN TO DOOM

Clear scenario
Good homorous tone in parts

CHALLENGE VALUE VERDICT

4/5

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hen I first bought LocoSpell, bundled with LocoScript 2 at an irresistible price, I had no inkling of its true potential. I saw it then as simply a tool to seek out and correct typographical errors in my writing, since I never make spelling (SiC) mistakes, with the added bonus of supplying a word count.

In general, I like the program, though it seems a bit slow. especially when the error in the highlighted word is glaringly obvious but you still have to wait for the dictionary to be checked before a sometimes incorrect word is offered as a rankaca mant

LocoSpell is a celebrated source of amusement when it tries to deal with proper names. The program suggests I change my name to Stamen, while my wife Wendy becomes Weedy. My daughters Katie and Sarah become Kale and Salad respectively. Stamen, Weedy, Kale and Salad Matchers? We seem to be a distinctly vegetable family according to LocoSpell

This idiosyncrasy is fascinating me, and so I have undertaken some research into how LocoSpell interprets names. Taking a random sample of first names, from Adam. to Victoria, I spellchecked them using the small 36k, medium 68k, and large 160k dictionaries in turn. The results raise some intriguing questions.

Scrabbled eq.'s

You might expect the small dictionary to offer simpler replacements than the large, but it is surprising how obscure some of the words are. Claire becomes Clade, Hilda changes to Hila. Laura goes to Labra. None of these words appear in Collins Concise English Dictionary, which contains more words than the LocoSpell dictionary. Where did they get the words from?

And why do some names evolve through the three dictionaries? Victoria receives a sex-change to Victor under the small version, then becomes Victorian before reverting to her proper name with the large dictionary. Adrian was

branded an addict by the small dictionary, then strengthened his resolve to become Adamant, before sliding into obscurity by becoming merely Admin. Florence positively galloped through the changes: first she Flared, then she Fluoresced. and finally in a fit of pique Flounced off. Roger was a Roamer and a Rover, until rather perplexingly coming home to be a Roper.

Perhaps one of the great mysteries is that Silas, not one of the commonest of names, remains unchanged on my list by any of the dictionaries, yet does not appear in any of them, while Jesus - a rather better-known name, one might think - is changed to either Jeans, Jests. or Jess.

CASTING **SPELLS**

Stamen Matchers (sorry, Steven Matthews) reveals how LocoSpell can be used to tell the future

Every LocoSpell user loves and hates it: the insistence of LocoScript's spell checker in suggesting replacements for any word in your text that it doesn't have in its dictionary. Most of the time it provides harmless amusement for all the family when it tries to replace 'Hamilton' by 'Hailstone'. But it goes much deeper than it might seem at first glance...

But this was not the only fruit of all my painstaking research. After many hours in front of the Amstrad. collecting, collating and correlating, it suddenly florenced into my consciousness. Forget about your I (SiC)Ching, your (SiC)Tarot cards, or even the entrails of dead farmyard animals; LocoSpell is a powerful computer-age tool of divination!

Spell binding

document, type in the subject's name - let's say Janice Bassingthwaite - then run LocoSpell using either one dictionary, or all three in turn. depending on how detailed a fortune you wish to give. Janice turns out to be Jail Basing. Jaundice Basing, and then Jangle Bashing, It is a simple matter to determine from this information that poor Janice will have health problems, a spell in custody and then a nasty accident. Alternatively, a person's

character can be divined from their name. Lynn is a Lying, Lying Lynx; Cyril is a Cynic; Michael is up to Mischief. And just in case you still have any doubts as to the considerable powers of LocoSpell to analyse an individual's personality, take a look at Meryl Streep, who in reality walks a Mealy Street, or Bob (Robert) Monkhouse. who is a robber mongoose

My current project is to devise a LocoSpell-based system to work out the winning horse in a race purely from analysis of the names of the runners and the lockeys. Who needs Pro-Punter?

Here's how it works: you create a

Printer idle, Using A: M Page 1 line ge f7=Spell 10-Uplons Stopped at: Rae Replacement: Race Use suggested replacement Replace and then edit Edit this word Consult dictionary Ignore this word Mark this word correct Add to user dictionary

Osing A: M:

f7=Spell Page 1 line

Alec

Ale

Use suggested replacement
Replace and then edit
Edit this word
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BOOK LOOK

LocoScript lover Sharon Bradley looks at two new manuals for everyone's favourite word processor

LOOKING INTO LOCOSCRIPT 2

by Susan Rogers

£13.95 • Prentice Hall (01 442 231555) This is the latest in a series of 'Looking Into...' instruction

books which explores the merits of LocoScript 2 for the benefit of the infrequent dabbler and the complete novice who's never even so much as looked at a PCW before.

The introduction is aimed very much at typists converting to word processing. For example, many typists are used to using a lower case 'l' for the number 1 and an upper case 'o' for the number zero. She explains that, as a personal computer operator, you can no longer get away with it. Neither can you carry on blithely pressing the Space Bar in place of shuffling forward with the cursor key because, in wordprocessing, a space is recognised as a text character.

The book consists of 15 assignments all in all. At the beginning of each assignment, there is a list of objectives or goals to achieve (for example, copying, moving, erasing and renaming files). Then follows step by step numbered instructions as to how to achieve those

Each instruction is also accompanied by diagrams of the keys you need to press, simultaneously or otherwise, in order to get the desired result. The resulting screen display is also shown wherever possible

The book covers all of LocoScript's editing facilities, from the most elementary, like recalling a document from disc, to the more advanced, like inserting one document into another.

Where this book does score massive brownie points over its rivals is in its dedication of the last three assignments to LocoSpell and LocoMail. Although complementary programs, most LocoScript tutorial handbooks will tend to leave them out. Rogers, on the other hand, explores the programs and the uses to which you put them clearly and thoroughly.

Once you've read the book, cover to cover, Looking into LocoScript 2 will provide a quick and easy source of reference. Indeed, this will probably be its chief value to readers of a slightly more advanced capability. At the back of the book, you can find a series of appendices which highlight, among other things, shortcut keypresses for clearing and setting menus, a quick reference guide to the disc management screen and a main menu flow chart (the last of which is extremely useful because for the first time you are able to see in black and white just how each of the menus is related to the other four and exactly how they are accessed). Then follows a six and a half page glossary of terms both general and specific.

This book defies anybody not to be completely conversant with the workings of LocoScript 2 by the time they've turned the last page. Its treatment of the subject matter is both friendly and thorough and exactly what the complete beginner needs.

LOOKING INTO LOCOSCRIPT 2 (ISBN 0 13 540445 2) 8000 PLUS VALUE VERDICT 4/5

HANDS-ON LOCOSCRIPT

by Pam Smith

£3.95 • McGraw-Hill (062 823431) Hands-on LocoScript is another book that has been

designed to introduce anyone with little or no previous wordprocessing experience to LocoScript - this time to version 1.04, supplied free with the 8256 and 8512. As the title suggests, this book adopts a practical

approach to mastering the basics; in other words doing is the best way of learning. This process consists of a series of eight units, at the beginning of which is listed a four- or fivepronged objective. Underneath the heading of each subobjective you'll find a series of numbered instructions illuminating each step of the way. Screen shots are conspicuous by their absence, but then a clear lucid text should be able to stand by itself. And indeed this seems to



The action proceeds at quite a cracking pace. Indeed, the tone of the book would seem that little less indulgent towards the complete novice than others with a similar purpose. Each unit concentrates on a group of related objectives rather than on just one, so there is quite a lot to do. The various tasks set by Pam Smith for the user incorporate facilities looked at more closely in former units as well as those just mastered in the current one.

In addition, there is a brief self-help test at the end of

every unit. This consists of a series of informative sentences with strategically placed gaps which you fill in: 'to start up the system you must insert the LocoScript disc or disc into the disc drive'; they are rarely so searching as to leave you in a state of feverish anticipation for long.

This book is of minimal use to LocoScript 2 owners principally because of the differences between the two programs in the keypresses required to access many of the menus, particularly on layout. These days LocoScript 2 is rapidly becoming the 'official' version of the word processor even though Loco 1 is still the one shipped with the PCWs.

what it has set out to do: introduce, in a clear and logical fashion, some of the more used and useful functions of one of the most popular

8000 PLUS VALUE VERDICT 4/5

Still, the book only costs £3.95 and achieves wordprocessing software packages to date. HANDS ON LOCOSCRIPT (ISBN 0 07 707013 5)

Testing, one two LocoScript 2 is an updated version of 1, faster and with many extra features. Version 1 comes with all 8256s and 8512s free, version 2 with 9512s. 8000 owners can buy LocoScript 2 for £30 from Locomotive (0306 740606) LocoScript 2 is now regard

as the 'standard' version of

the program, not least by



EFT\$ gets the left parts of a string as

String handling

Wom" and LEFT\$ ("wombat", 2) is specified. LEFT\$ ("wombat", 3) is "wo". Similarly if a\$="wombat"

The basics

your CP/M disc and at the A> prompt type BASICIRETURN]. The ok prompt shows BASIC is ready for your next commands ISHIFT[[EXTRA][EXIT] together) insert To get into BASIC, reset the machine

SYSTEM[RETURN]. The A> prompt of To leave BASIC type CP/M reappears

To load a BASIC program called, say, program on it and type LOAD "PROG PROG.BAS insert the disc with the

RETURN]. If the program doesn't end in BAS eg. to load PROG.GSX type LOAD "PROG. GSX[RETURN].

loaded, just type RUN[RETURN]. You can run a program direct from CP/M by typing PROG[RETURN] (or whatever the name at the A> prompt BASIC PROG[RETURN] Alternatively, if a program is already To run a BASIC program type RUN (or other appropriate name).

memory, for example before typing a new To clear a program from the working program in, enter NEW [RETURN].

Exping in a listing

The End" finishing with [RETURN]. You each line number followed by the line of can type the lines in any order; BASIC Clear the working memory and type in puts them in sequence automatically. nstructions, for example 250 PRINT

whatever number it is, use the cursor and To edit a line while typing it, use the cursor and delete keys as normal. To edit delete keys, and finish with [RETURN]. an existing line, type EDIT 160 or

1,000,000,000 or 4E9 To list the existing lines of a program vpe LISTIRETURN]. To list specific lines ype LIST 50[RETURN] (which lists line .00-200[RETURN] (to list all onwards). If you want a list sent to the ines from 100 to 20)0 or LIST 150-RETURN] (to list all lines from 150

printer, the command is LLIST RETURN To delete a line type the line number

adds and - subtracts

etters after the full stop, as above, then hen [RETURN], or use DELETE with To save the current lines of a similar options as for LIST above. program type SAVE "LIST RETURN] or whatever ner appropriate if you start the

BAS will be automatically tacked on.

Here are a few of those things you can never remember in BASIC, all guide to the commands nor is it intended as a BASIC tutorial - if you to write a program in JETSAM, you'll have to dig out a proper BASIC on a nice colourful wallchart for your study. It isn't a comprehensive want to know the syntax for the arctan or antilog functions, or how

88 88 8888

RIGHT\$ gets the right part of a string LEFT\$ (a\$, 3) and LEFT (a\$, 2) have T;if a\$="wombat", RIGHTS (a\$, 3) is MID\$ gets bits out of the middle of a as above: RIGHT\$ ("wombat", 1) is

he same effect.

2888888888444444

string. MID\$ ("wombat", 4, 2) is "ba". If

bat".

35="wombat", MID\$ (a\$, 2, 3) is "omb"

and MID\$ (a\$, 3) is "m".

manual (you can get one from Locomotive on 0306 740606). etc., they will now be numbered 10, 20,

30, 40 etc. (All line references in GOTOs and GOSUBs are renumbered for you)

ASCII codes

Variables

ntegers (whole numbers) are followed by Names of variables can be long but can't have spaces: total.cost is OK but cost isn't. otal

a percentage: a%=5 or shoe size%=9 or Double precision numbers - ie, whole no of kids%=7

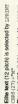
Real numbers, ie. numbers which might numbers bigger than 32767 or less than -32768 - have a hash: words #=54000 Strings - ie. text - have a \$ sign, and name\$="Fred" or date\$="01-05-89" strings should be wrapped in quotes:

п

be very big, or fractions, or have numbers lexadecimal numbers must be prefixed rat=cost*15/100 or ratio=25/73 or oi=3,1416 or lire-pounds*2235 after the point, have nothing:

numbering, move the decimal point to the ight the number after the E. For example arge numbers (bigger than 32767 or between 1 and 10 followed by E and a ess than -32768) must be entered in by a &: dozen=&HC or hundred=&H64 234567E4 is 12345.567; 5, 9E6 is whole number; to convert to normal scientific notation. This is a number

5.900,000; the population of the world is divides the first by the second Using the printer multiplies two numbers



OPEN "I", 1, "wombat.doc" opens a file for reading from. Read with INPUT #1, as File handling pica text (10 pitch) is selected by LPRINT Enlarged text (doubling of current size) is Proportional apacing is solocted by

6884888

> with the same functions as for PRINT. The screen with the command PRINT #2, as can print things to this file instead of to

eturns to 10 pitch) CHR\$ (27) +"P"

same functions as PRINT, Also you can

PRINT prints on the printer with the

nigh quality, LPRINT CHR\$ (27) +"m0"

letters after the full stop, as above, then .BAS will be automatically tacked on. To renumber the lines in a listing just RETURN] or whatever name you think appropriate. If you don't specify any program type SAVE "LISTING

ine ranges as above). If your lines were type RENUM[RETURN] (you can specify previously numbered 1, 30, 87, 46730,

you get a space before it (for the minus sign if needed) and a space after, you variable is. If the variable is a number To print something and go to a new line just PRINT AS or whatever the can remove them using USING as Printing

To print without going to a new line B\$, then a new line. PRINT AS, B\$, C\$ To print several things next to each other separate as follows. PRINT AS; " "; BS prints A\$, then a space, then A\$; TAB (27); B\$ prints A\$, moves on end with a semi-colon le. PRINT AS: statement: PRINT AS; SPC (22); BS prints A\$, then 22 spaces, then B\$ will print each variable at the next available 'print zone', like tabs set Spaces can be put into a PRINT abbing can be done too: PRINT to column 27, then prints B\$ (on column 27 of the line below if every 15 spaces. helow

Strings, PRINT USING "!"; A\$ prints spaces between the two backslashes ormatting is done with USING. For only the first character of A\$. PRINT which are got by pressing [EXTRA] USING "\ \": AS prints as many characters from A\$ as there are necessary).

102 66 103 67 104 68 106 69 107 68

99

here are more than two figures before "##. ###"; A will print two places of A before the point, and three after. If or numbers, PRINT USING he point it will print them all and display a % sign to show you've messed it up. PRINT USING olus the half key twice).

88885175545

*****; A will display three figures and "###. #"; A will display four places no decimals, rounding the number if before and one after, PRINT USING necessary. PRINT USING

> 96 下 他 ひ 本 年 だ 中 19 8228

he point and one after, and the comma *******. . *" wants six figures before asks for the digits to be separated into hrees by commas.

urther output to a window whose top row

+CHR\$ (h+31) +CHR\$ (w+31) restricts

s r, whose leftmost column is I, whose

neight is h rows and whose width is w

Quality LPRINT CHR\$ (27) +"m1" selects high quality, LPRINT CHR\$ (27) +"mO" selects draft control the type style as follows: Bold is selected by LPRINT

same functions as PRINT. Also you can

CHR\$ (27) +"4" and cancelled by IPRINT Italics are selected by LPRINT "HD\$ (707) + "F"

66

for reading from. Read with INPUT #1, as

Proportional spacing is selected by

LPRINT CHR\$ (27) +"p1" and cancelled by LPRINT CHRS (27) +"po" (which returns to 10 pitch).

THRS (27) + "S1" and cancelled by IPRINT Enlarged text (doubling of current size) is selected by LPRINT CHR\$ (14) and CHRS (27) +"-1" (a one, not a letter I) and CHR\$ (27) + "SO", subscripts by IPRINT cancelled by LPRINT CHR\$ (27) +"-0" Superscripts are selected by LPRINT Inderline is selected by IPRINT cancelled by LPRINT CHR\$ (20) CHRS (27) +"T" Condensed text (17 pitch) is selected by CHR\$ (27) +"E" and cancelled by IPRINT LPRINT CHRS (18) (returns to 10 pitch) LPRINT CHR\$ (15) and cancelled by

Pressing [ALT]A recovers the last PEEK (64504)) before your first hat letter or number in the line. he command PRINT and ' and the end of a line press n the listing RANDOMIZE Jseful tips end of a line. CUTICUTI.

he layout of your screen in rows and columns

E6 88

andom number, This starts the

sequence at a random place.

columns. For example a window starting at row 3, column 4, of height 5 and width 6 would be given by PRINT CHR\$ (27) +"X"+CHR\$ (35)+CHR\$ (36)+CHR\$ (36) CHR\$ (37). Go back to the normal screen with PRINT CHR\$ (27) +"y" Turn cursor on/off PRINT CHR\$ (27) +"H" returns the cursor "Y"+CHR\$ (r+32) +CHR\$ (c+32) moves to the top left, so PRINT CHR\$ (27) +"E" CHR\$ (27) +"E" clears the screen, and Cursor positioning PRINT CHR\$ (27) Clearing the screen PRINT +CHRS (27) +"H" does both. Escape codes

PRINT CHR\$ (27) +"f" turns off the blob; Reverse video PRINT CHR\$ (27) +"p" reverses the colour of subsequently PRINT CHRS (27) +"e" turns it on. THR\$ (27) +"q" reverts to normal. Cursor movement CHR\$ (27) +" j" saves the current cursor the cursor to row r and column c, PRINT moves it back to the position saved by position and PRINT CHR\$ (27) +"k" Windows PRINT CHR\$ (27) +"X" he j. Top left is row 0, column 0

PRINT CHR\$ (27) +"A" moves the cursor moves right; ... "D" moves left. Similarly PRINT CHR\$ (27) +"I" moves up one, CHR\$ (27) +"B" moves it down; ..."C" up one, if possible; similarly, PRINT

with the same functions as to PRINT. The fillen name can be a variable like name\$ and the "I" file must be opened before the "O" file in a program. DPEN "O", 2, "wombat, doc" opens a file creating if necessary) for writing in. You When typing a listing, ? is the same as o pause during LISTing or the running or print things to this file instead of to When editing BASIC listings, pressing of a program, press [f5]; [f3] resumes he line x=RND (1) assigns a random FIND] followed by a letter or number noves you to the next occurrence of Pressing [FIND][FIND] moves to the gives you the same sequence every apostrophe) is the same as REM. number between 0 and 1 to x. but

proper random number, include a line ime from starting BASIC. To get a

everything to the end of the page; PRINT .ine feed (moving down one, scrolling if Deleting PRINT CHR\$ (27) +"J" erases zero) lets you use the bottom line of the screen. PRINT CHR\$ (27) +"1" (one, not Carriage return (moving back to left of PRINT CHR\$ (27) +"M" deletes the line returns the bottom line to its role for CHR\$ (27) +"K" to the end of the line. with the cursor on, PRINT CHRS (27) Seep is obtained by PRINT CHR\$ (7) +"N" the character under the cursor. Sottom line PRINT CHR\$ (27) +"0" present row) is PRINT CHR\$ (13) but scrolls the page if necessary. Backspace is PRINT CHRS (8) displaying error messages. Further details

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PCW MADE PORTABLE?

Rob Ainsley previews Isenstein's Odessa

Ever wanted to take your word processing with you on the train or to the hotel? The only solution at the moment is to buy a portable computer and link it to your PCW – see this month's Z88 feature. Fine, but there are problems of compatibility: LocoScript and CP M don't really run on any other machine. They speak different languages and the translations cost you in time and money. However, Isenstein are hoping to bring out a genuinely compatible alternative...

he Odessa is effectively a PCW which has been stripped down and repockaged into a carry case. It's the size and weight of a rather full briefcase, or perhaps one of those metal camera cases full of zoom lenses and sp

The keyboard (a repackaged 8000 keyboard with the same arrangement of keys) is fitted in the lid which folds down from the main unit. The monitor and drives are in the top of the main unit. You can't close the lid if the machine is still switched on, so you never have the worry of running your batteries down by mistake.

It comes with either one or two disc drives, both of which are the same as on the 8512. The internals are the same as the PCW and so run your LocoScript and CP/M

> discs and everything else as normal. You can work on a LocoScript or Protext document, a Mini Office database, a SuperCalc

spreadsheet or whatever and use that disc in your PCW when you get home with no modifications or transfer procedures. Compare this to the situation with a 'genuine' portable computer such as the Cambridge 288 or the PPC, the PPC uses 3" inch discs, the 288 no discs at all. Neither runs CPM or LocoScript so you can only save your work as ASCII (ie. simple text, no fallisor of layouts etc.) and then transfer it across a cable link to your PCW using communications software.

The price to pay is that you're getting a real compromise — the Odessa is not particularly light, for example, and the screen is a normal ninety-by-limity display squashed into a four-inch monitor. You get used to it quickly but if you're one of those people whose arms aren't long enough to be able to read a newspaper any more, you'll find it a that. You can byig in an external monitor, ie, your PCW at home, though there doesn't seem to be much point in this as if your PCW to streen you are the price of the province of t

Get converted

On the technical side, really that's all there is to it. You know what a PCW can do, and the Odessa does exactly the same. It runs off the mains or off internal rechargeable batteries. The claimed file of one charge is four hours though, as ever, in practice the figure is rather less. You can run the standard printer directly off the main unit though you wouldn't normally want to lug that around with you as well.

Isenstein plan to sell the Odessa as it is, complete with printer, for 5529 (single drive) or 6529 (double drive). Versions with an added parallel serial interface (enabling you to plug in your modemor run dialsywhed printers) would be £70 more. Alternatively, you can supply your own 8256 or 8512 and Isenstein will convert it for you. You get an Odessa plus printer back. Probable costs: £230 (8256) or \$310 (8512). The conversion invalidates your Amstrad guarantee though Isenstein supply their own twelve-month warranty.

Now, before you go sending your cheques off, remember that this is only a preview, and so far only a prototype of the Odessa has appeared. Full-scale production is a different matter and hasn't started at this time, though bestratis entry ve already had hundreds of orders. It would be wise to check on the latest situation by phone before committing yourself.





The Odessa screen, life size



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FREELANCE FINANCES

nce, starving literary hopefuls would crouch in freezing garrets, scribbling masterworks by candlelight while rats gambolled underfoot. Nowadays garrets are hard to find (all converted to luxury yuppie apartments), starving authors all seem to own PCWs, workrooms mustn't get too freezing for fear of condensation in floppy disks, and probably rats are an endangered species. But the squalor of freelanging still has its charm. though such writers spend long hours not writing but thinking about economics, and even longer hours wishing for some cash to be economical with

Ursula Le Guin's advice to spiring freelances was simply, 'Marry money,' Larry Niven suggests getting your parents (like lis) to put a million dollars in a trust turd for you. And austere James Bish warned against risking it unty royalies from books written in your spare lime exceed your "real world" irrome (if any).

income (if any). Q: OK, Langford, which method

dd you use?

A: Er, none of them really. As a soy to Le Guin my wife is at least solvent, and I heeded Blish by lining up two book contracts before fled the Civil Service, but when I suggested Niven's method my lather remarked, "Pull the other one, son, it olavs carillon chimes."

For the record....

A wild point when on your own is to wire everything glown. Yes, I'm sue that with an eye to future factor you already jet down cruel mod pictures of people who sneeze glutinously into your face and tread on your face is in the bus flore usefully, hang on to bus flotes and every receipt for anything plausibly a writing superse, with a view to the coming lax return. Without tangible records you! Toget what you've spent.

Paying by credit card and reasuring the little greaseproof chit can be useful when (as with British Rail) getting a receipt involves surj reluctance and delay. But when reclaiming VAT, strict Customs & Excise inspectors won't allow any expense not backed up by a receipt carrying the supplier's VAT number. so watch it.

Q: Where in my accounts do I

put expenses for disks and printer

A: Stick 'em both under Stationery.

Q: Can I claim the cost of my

new PCW?

A: Eventually, However, a
computer is that wonderful thing a
computer is that wonderful thing a
capital asset", and to encourage
industrial investment in new
equipment the Government lets
you claim only 25% "Gepreciation"
spenses each year. Pay 1000 for
spenses each year. Pay 1000 for
5100 against profits the first year.
516 (e. 25% of the remaining
5200) the second year, £56.25 the
year after that.

Q: Blimey. You mean if I earn £400 and spend it on a computer solely for my writing business, I pay tax that year on £300 profit which I haven't got?

A: You're catching on. Actually, £300 total profit is a couple of thousand quid below the level at which you start paying tax.

Learn to be a leper

My favourite cartoon shows this hooded character in loathsome rags, ringing a bell and calling, "Self employed" Self employed Self employed. The exceptions being those who've set up initied companies to avoid graduated tax on an embarrassingly huge or the companies of the companies of the companies to avoid graduated tax on an embarrassingly huge sums to accountants, who probably suggested the idea for this very reason.)

Self-employment gives you the privilege of paying Class II National Insurance contributions, which the DHSS extracts directly from your bank account to the tune of (currently) E4.05 a week, whether or not you're earning anything. Excricise for the student, program screen or the student program or

Q: What benefit does that

A: None whatever. The Class IV rake-in is your governmental reward for becoming self-employed and forfeiting unemployment



A page in the company of author and PCW pundit David Langford O R D

benefit. Sometimes the thrown-off shackles of former employment can look positively cosy.

Writers don't just write Finally, the carefree joys of freelancing had better not be confined to writing. If your PCW muse lears mostly to poetry or short fliction, it's important to diversify. Even famous poets don't make a living from poetry: when not independently rich or mundanely employed, they live or editorial work, reviewing, journalism, reading for publishers, teaching, lecturing, media pontification, or writing, articles in 8000 Plus about how the PCW

The list is similar for novelists, with one notable addition: hackwork. Ever wondered who writes those novelizations of obscure films... that is, those not by Alan Dean Foster? Usually some

made it a doddle to produce The

Beowulf

Waste Land, The Faerie Queen or

temporarily broke author of moderate repute, who did a rush job of padding out a thin script for thick readers, and wisely used a pseudonym.

I've tried most of the above means of bridging the gaps between "real" books. With practice they work addictively well, leaving no time for the Great Novel which you feel you really should be

Q: Oh come on, when I leave my job I'll have lots of spare time for everything.

A: It's a mysterious rule of freelancing that an entire day with nothing to do but write can produce less than the few hours one used to manage in the evening after

Q: Well, why are you wittering on in 8000 Plus when you could be writing chapter six of your sensitive comedy of manners Sex Pirates of the Blood Asteroid?

A: The money, chum, the oney.

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HEALTHY & HAPPY

Andrew Bibby looks at some of the health risks of using computers

isaffected friends or partners, wondering what the PCW has to offer that they haven't, may mutter darkly that your relationship with your computer just set healthy

And they may have a point: wonderful as the PCW can be there are health and safety implications about using any sot of computer system, and that includes the humble limited as much as a complex office based installation.

Lel's not be sensationalist about this: your health won't teireparably damaged the first time you take out your

systems disc and load Loo Script.

Butler's not be blasé either. You wouldn't refuse to certa a lawmower just because, if used carelessly, it aut tim off your fingertips as well as your grass, but you would take sensible precautions, like keeping your hands well away from the blades. A similar attitude should apply to sed the POW. It's just common sense.

with elements is that since a computer is an electronic lace of equipment, some of the potential health is used equipment, some of the potential health is used equipment, some of the potential health is used to the potential health is potential health in the potential health is potential health in the potential health is potential health in the potential health in the potential health is potential health in the potential health in the potential health is potential health in the potenti

Nevortheless it's not all the stuff of PhD research. Let's tat with the eys. Peering at the PCW screen seems unlikely to cause any permanent damage to your eyesight—ison does change naturally over the years and any discretation in your eyesight is probably just a sign that joilt petting old! What you may suffer from, however, is gestrain. In other words, the muscles which control your eyes are getting tired. This can happen if you constantly tows and refocus your eyes (for example, if you are regularly looking down to read a text, then tooking back to the streem). Users of bifocals, inclientally, are fikely to need seal algasses to adjust for the usual distance to the

Be honest: how many times have you switched off your PCW after a hard day's (or night's) use, and walked away rubbing your eyes? Or begun to experience dull aches and pains when you've been sitting at your computer too long? Just how unhealthy is using a PCW?

Glaring deficiencies

Glare can also be a problem. Your eyes will obvously have to work harder to read text on your screen if the screen is picking up reflections or glare from elsewhere in the room. One simple rule is never to position the PCW in front of a window or source of light. It can make good sense, too, to invest in an anti-glare filter, which can be bought for under 220 from many advertisements in 8000 Plus.

It seems ironic, given the sophistication of computer equipment, that something as basic as giare can so often be allowed to sabotage its userfulness. Usually, it's just that somebody hasn't thought; when the Observer recently moved into their lavish new offices in Battersea gard, the screens for the sub-editors were placed directly undermeath a glass roof. The roof was very attractive, but the poor subs were forced to resort to cardiocard boxes to enable them to read the text on their monitors.

9512 readers, with their black and white screens, may be wondering whether their screens are better than the familiar lime green on dark green screens of the 6256/5512s. But, despite the 'paper white' screen of the 9512 adverts being claimed as easier on the eye, there is little research one way or the other. Which you prefer is ultimately a matter of personal tasks.

It's not just your eyes which can get tired. A wrongly positioned keyboard and screen (or a wrongly positioned keyboard and screen (or a wrongly positioned you) can cause aches and pains, including headaches. The Manufacturing, Science and Finance union (MSF) recommends that computer screens should be about 70cm or so from the user (gat out your ruler) and they also point out the importance of correct posture. Obviously if you use an uncomfortable chair or put your PCW on a table which is too high or low you are creating potential problems; a proper adjusting office chair may seem a rather unsexcitien.

Screen test

common accessory for the PCW. but they are invalidate price. Promar quote a price £48.40 plus VAT for a selfsomen, for both 8000s and 9512s, which also comes we an earthing wire. Promer's telephone number is.



Any old ion?

If you ever need to feel extra guilt that you're spending time on the computer when you should be doing the household chores, try running a finger across the PCW screen.

Chances are it will guickly be covered in dust.

Chances are it will query be covered in dust, However, this won't be just any old dust, not at least according to Alan Taylor of Promar. He points out that the cathode ray tube which produces the visual display has a strong positive electrostatic charge, and this attracts neglively charged dust particles from the atmosphere around the screen.

In the meantime, the positively-charged dust is being repelled from the screen, a since human skin itself normally has a low negative charge, these positively-charged to make the since human skin itself normally has a low negative charge, these positively-charged to most head straight for the person operating the computer. He claims that this can explain dry skin, sore yes and general telthargy sometimes expelenced by computer operators.

The picture painted by Alan Taylor, of positive and negative ions rushing about in front of your PCW screen, might seem like

Further info

something out of a shoot-few-up areade game, but in fact he describes the air disturbance created as very similar to that experienced during a thunderstorm. He also claims that the absence of of negatively charged ions in the atmosphere is not particularly healthy, an argument also advanced by the companies who make air to concern the companies who make air coincisers. Inolesser screde extra negative ions, which some say help to make modern office buildings more pleasant places to work.

The answer to electrostatic, according to the VDU Worker's Rights Campaign who say that the problem is a serious one, is to fit anil-static filters to compute screens; in fastic filters to compute screens; in fastic filters to compute screens; in fastic filters to used to cut out both pages and static. The difficulty is that, for the filter to operate effectively and rain away the static charge on the screen, and arthing wire is necessary. PCVV, as we have carding wire in compute of the compute o

recommendation to Amstrad users is that they dispose of them as quickly as possible' he says. Gulp. This is not the sort of thing that readers of 8000 Plus (or its writers) are going to want to hear. Does he really mean us?

Tony Webb claims that the low frequency electromagnetic emissions from the Amstrad stable are much greater than those from many other computers, such as IBMs or Olivettis. 'It would cost Amstrad pennies to remedy this at the design stage, but they haven't taken this issue on board.' he save.

Radiate and fade away

The argument, however, is whether electromagnetic radiation from computer screens is a danger to health. The Health and Safely Executive say there's no proof that it. The radiation from VDIs is well below the levels considered harmful by responsible expert bodies such as the National Radiological Protection Board in the UK', according to the HSE's 'Working with VDIs' leaflow.

But recent research in Cailfornia, much publicised in the limits hmedia, found that there was a statistically significant increase in the number of miscarriages experienced by women who work at computer screens. Again, the HSE inclined to be reassuring: 11 you are pregnant or thinking of becoming so, there is no reason to stop working with VDUs', says their leaffler.

The case is not proved conclusively either way. Tory Webb accepts this but adds. There is growing evidence that electromagnetic radiation from VDUs could be harmful for human beings and in these circumstances, if you can eliminate something, it is prudent to do so.

Specialists are critical that the PCW screens do not have a util mechanism to enable users to swivel them into position.

Wrist action

Wist action

Watch your keyboard technique too, say the Health and Safety Executive – your wrists should be flat over the keys, and not bending up to tooch them, as can be the case if you

and not bending up to touch them, as can be the case If you rest your wrists on the edge of the keyboard or table. This is all the stuff of ergonomics, and it might seem like glorified common sense. But, according to Gill Kriton of the London-based VDU Workers' Rights Campaign its important. She is worried by the growth in Repetitive Strain injuries, RSI, caused by regular and recurrent movements the fingers and arms over a keyboard. This can affect of

computer add-on, but could be a good investment. Some

important. She is worried by the growth in Repetitive Strain linjuries, RSI, caused by regular and recurrent movements the fingers and arms over a keyboard. This can affect people working at home using their Amstrad PCWs, she says: though othen people don't connect their aches and numbness with this. At its most serious, RSI can shade in tenosynovitis (inflammation of the tendons, sometimes called typists cramp), which is a prescribed industrial disease, and both debilitating and painful.

However, it is the subject of electromagnetic radiation

from computers which is the hot potato.

Tony Webb, a founder member of the VDU Workers'

Tony Webb, a founder member of the VDU Workers' Rights Campaign is nothing if not forthright. 'My

A fascinating case

IBM and other computer manufacturers have cut down on these emissions by constructing earthed metal casings to act as screens around components. PCW users could arrange for their PCWs to be similarly shielded, but according to Alan Taylor of Fromar Sales, which undertakes this kind of work on commercial computer installations, it would be very expensive. One additional difficulty is that the PCW does not come supplied with an earth cability.

In general, however, what every PCW user can do is to follow good office practice and take frequent breaks from the screen. The MSF union advises their members to take a half hour break after every two fours of using a computer. In practice, it can be hard to remember. Journalists on one West Country newspaper even rigged up a flashing computer message 'SCREEN BREAK' to persuade refuctant colleagues to take it easy (perhaps someone out there could devise a BASIC program to do the same thing for a PCW).

Which reminds me: I've been sitting typing this into my PCW for at least a couple of hours, and if you don't mind I'm going to go for a coffee.



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ou can always tell a PCW owner by the pale, wan complexion. Whole surns youmners are spent doistered in a dark room word processing away swisthy. How different are the happy 288 owners who can crate immortal prose or concoct cheeky letters of complaint on the beach or not got al mountain. Their rosy cheeks and stury legs set them out as far more adventurous, healthier their reservances.

OK. That might just be overstating things a little, but it is use that PCWing can be a compulsive behaviour which certainly can restrict your outdoor activities. Worse still, after about six months of constant use, many PCW owners find they are so used to writing at a keyboard that they have apply of the ballpoint pen and can't even write a note to the milkman with out printing it out in pear letter quality.

This is where the Z88 comes into its own. At the very test it is a computerised Filofax, able to keep track of all your names, addresses, details and dates. And how much more impressive to update your Z88 diary on the train than your Filofax. But with a bit of imagination and a little effort it can become a powerful computing tool which acts a little bit like a PCW on the move.

It has to be admitted here that few people would be tall? content with the Z88 as their only computer. Restrictions in the operation (especially the screen size) means that most users will be happy to slip into the comfortable surroundings of LocoScript or Protext to polish up the finished article after a hard day's word-processing in the back gardon.

But this makes for the perfect symbiotic relationship.

Write a rough first draft on the Z88 word-processor and then transfer over to the PCW for polishing and printing.

What is a Z88 anyway?

A 288 is, like the PCW, a computer on which you can carry ot a wide variety of interesting tasks. Unlike a PCW however you don't start up using a disc. All the applications are there from the moment you start up. When you switch off, the task you were working in is saved and is ready to use when you restart again – unlike the PCW's memory dive.

You can have a number of applications in memory at any time or you can save and load files. Saving a file obviously gives greater security against the file being lost if anything

It mas on four AA batteries (airbogh you can get a mains stoptor for 59.95) and this will last troup to 20 hours of work or for ayear if the machine is lying unused on the shelf. As the applications are being saved even when the machine is switched off

PCW + Z88

Alec Rae starts a new series to see how the Z88 and the PCW can live together in peace and harmony

PCW owners will happily discount every other personal computer as being totally useless – except a small black box about the size of an A4 pad. Cambridge Computers' 288, brainchild of the charismatic Si Clive Sinclair, seems to have found a place in the heart of many PCW owners. Before the complicated how-to-do-its start next month, a brief introduction to what the Z88 actually is..

it is still using some power. If you remove the batteries everything in memory will be lost.

Like the PCW, main use is probably wordprocessing although it can also be used as a spreadsheet and a simple database just using the applications available.

In fact when you buy a Z88 you get a complete package. No need to buy any of the Write Hand Man or Companion type 'pop-up' utilities. They come as standard.

Lowdown on popdowns

These bopdowns' include a calendar, clock, alarm, and calculatior. A lot more than even a Filolax, you must admit. For instance the calendar is accurate from 1753 (handy if you haven't done your expenses for a while) and will happily allow you to work to what day of the week the first of January 3000 will be (it's a Wednesday by the way) for those people who really like to plan ahead.

The alarm is perhaps a little on the quiet side to wake you up in the morning but it would be invaluable for keeping you in touch with important appointments during the day. It does give you space for a message with each alarm so you could set it to tell you to have a coffee at 11 o' clock and

Where to get it
The 288 is produced by
Cambridge Computers Ltd
(0223 312216) and is available
through branches of Dixons for
E299. The Zhass orbiware is
available from Wordmongers
Ltd (0296 437878)
A BBC BASIC mamual is soon
to be available from M-TEC Ltd
(0508 376657)





blown programs on your PCW - a diary, a word processor, a spreadsheet and an area where you can process in BASIC.

Applications in writing

The diary gives you as much space as you require to fill in your appointments for any day for certainly as long as your Z88 will last. Tie it in with the alarm and every day the computer will automatically produce your diary entry for the correct day as you wake.

Instead of using scraps of paper, you can take notes of all inportant messages, orders, memos and most importantly you can keep track of your expenses on the spread sheet and have the totals all worked out automatically.

Whether or not you would use the BASIC section depends on your own imagination. It is BBC BASIC, so Mailard BASIC users would need a bit of time adjusting to the differences but it is a powerful form of BASIC that will do virtually anything you want. A manual specifically for z88 users is supposed on the way.

It is perhaps more difficult to work out what you would do with BASIC on a Z88 than a PCW. As it comes with so many utilities as standard there is not the burning necessity to produce these in BASIC as there is with the PCW. However there are still uses for it (especially in areas like preparing text for word processors in other computers) and for anyone to BBC BASIC (and who can get hold of the mythical CP/M version of the language) this would allow you to program, anytime, any olace, anywhere.

But most important by far the Z88 allows you to write a letter of complaint to British Rail about the lateness of their services while actually on the train, or better still write your next 90,000 word novel in the statton waiting for it.

Pipedream - the arguments

The first thing you must learn about the Z88 is that

Where's the printer?

The main problem with the 286 (tike all computers other than the PCWI) is that it doesn't come with a printer. Perhaps the makers feel there is enough crammed into such a tiny, space. But it has to be admitted there is little point in being able to produce hundreds of letters and not be able to print them out. This means investing, at least, another £150 for the cheapest dot matrix printer.

On the other hand PCW owners are aughing. For the price of a RS232 (the box

that fits on to the expansion port at the back of the PCW – about £50) and a serial cable (about £9.95 from Cambridge) you can make full use of PCW's faithful old printer.

It is, of course, possible with a little effort to print direct (full details later in the series) but it is by far easier just to transfer an ASCII file (save with the Plain Text option in the 288 to the PCW and then Insert Text in LocoScript. Tidy it up, adding headers, footers and print codes and print out in the normal way.

Pipedream is the imaginative name for a rather imaginative application which doubles as a word processor and a spreadsheet

As with any other change in word-processors there are a number of features in Pipedream that will delight and some which will depress. It is admittedly quite a complicated piece of software which might take a week or two to get fully to grips with. You can produce all effects by picking an option on a menu or by one of an infinite number of keystrokes.

Instead of [ALT] or [EXTRA] keys, the Z88 has a diamond and a square key, in simple terms the Diamond key usually prefixes a command that will affect the program you are in – for example Diamond S will swap the case of the letter that the cursor is on, making a w 'a 'W' or 'vice versa. Sometimes you find that you need to type in a number of letters after the Diamond For instance something simple like yield the cursor, the sort of the thing you could do in most word processors by pressing [RETURN], needs Diamond ESI. in Pipedream.

The Square starts a command that will allow you to do something in another application or popdown. In Pipedream pressing Square C will bring up the calendar or Square D will take you to the diary.

Although it is possible to survive using the menus it is a rather slow, tortuous business, involving pressing the Menu key up to seven times before you get to the correct list of options.

There are a number of the options actually printed on the front of the machine just below the screen but even these are only a fraction of the ones that are available. It may seem frightening at first but at the end of the day you quickly find you remember the ones you need.

The Future

Although many might be content with the package that comes from Cambridge there are now a number of developments that make the Z88 even more of a viable proposition. First to appear was the RAM and EPROM packs which add to the memory size of the machine.

The standard machine has 32k of available space, which in practice is not enough. Save a couple of reasonable sized files and have a couple of applications in memory and you get warning messages about the memory being full.

Now you can get 32%, 128k and 512k RAM packs (from 2010 to 200) which allow you to store any files and modify them at will. If RAM packs are removed from the machine all data is lost. The 32k and 128k PEPIOM packs (220 and 550) are similar except that they keep a permanent record of the files (they can the edited) and they can be removed without the data being lost. To clear these of data you need to get a special EPPOM eraser.

Where EPROM packs come in most useful is for program files, the equivalent of program diese for your PCW. For instance now you can get a modern that allows you to sand files along the telephone to any other computer anywhere in the world. You get the modern (£172.45) which is small enough to slip in your pocket (assuming you have quite big pockets) with an EPROM Pack that contains the comms software.

Last month Wordmonger, the software house specialising in software for the 288, launched Zbase, a database for the 288 very similar to the PCWs dBase 2. Like dBase it is a powerful programming language which allows you to produce very complicated applications. It is thought that a number of commercial applications for specialistic pagin Zbase as a basis to allow for specialist applications. Again Zbase comes on an EPROM pack.

Over the coming few months we will be looking at the different aspects of the Z88 and how they can be tied in with your PCW including using the PCW with the modem and the new Zbase.

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In its damage falls into a number of distinct types. Corruptions are caused by power dips during disc access, usually but not always in the directory area, are the most common. Repairing this type of damage, particularly in the directory area, is like a ligisary puzzle. I have to scan the whole disc to find the missing material and then reconstruct the corrupted directory entries. I then use the public domain program LOOKAT to dump them to the printer, then I piece them together into whole files.

Damage elsewhere is handled slightly differently, Don't tylo mend a program that has been damaged – annyy you have a master disc to make a fresh copy. LooScipt, documents, if damaged, usually such to be immediately reread by LooScipt, which either freezes up, stops at the point of damage, or poes into an endess loop. To expendie point of damage, or poes into an endess loop. To expendie these, or data files from any other program, you need florough knowledge of the programs file structure.

Perhaps the second most common problem is caused by Jauly copping, either with DISCKIT or LocoScript 2, when leaving the source disc in the drive instead of putting in the destination disc. These copy programs make two changes to the destination disc. These copy programs make two changes to the destination disc. first to avoid the use of a partially copied disc and second to distinguish one disc from another. This usually results in a 'bad format' type of error.

Knife Plus will replace the boot sector and make the disc usable again, but it leaves the other change on the disc, which may be in a key file or in an unused area. If it is in a program it could be dangerous to use. You have to know what you're doing to repair this (I use a modified version of the useful repair utility from the public domain. DU).

The third commonest problem is not the kind resulting in the deaded "insking address mark! In these cases the disc remains operable, but the programs being used object to the data or behave curiously. There are many possible causes of this type of problem: bugs, bad exist from the program, power dips etc. Recovery of data is usually possible but there is no general approach.

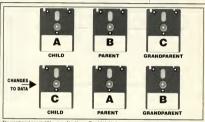
The most difficult cases are those caused by disc drive errors, mistakes made during formatting or gross corruption over extensive areas of the disc surface caused by magnets, X-rays and so on. Even here, depending on the damage, the single a surprising amount of information left on the disc, but recovery is like plecing together electronic confettil

If the worst happens and you do have a problem, make a copy of the disc if possible before you attempt to work on it again; you might erase or damage hidden but valuable information on the disc. If you have erased a file accidentally, do not use the disc to save any more files on. If indoubt, don't dabble: call an expert.

Corrupted discs can be sent with a spare disc in the same format in a padded bag with return postage and a note of the error message to: Dave Smith, 41 Tutsham Way, Paddock Wood, Kent TN12 6UA, tel. 089283 5974 (it's a go

DISC DOCTOR

Dave Smith gives a few hints on stamping out disc corruption



The grandparent-parent-child system of backing up. The child holds the most recent version, the parent the previous version, the grandparent the one before that. When changes are made to the file, the new version is put on the grandparent; this becomes the new child. The old child becomes the new parent, the old parent the new grandparent. For each subsequent version, the cycle repeats.



"HMM ... THIS ONE COULD BE TRICKY.

How to beat corruption

a) Always, always, back up', in. keep copies of, your discs. They were rule eventually but are cheap in comparison with your time. but you superate a faulty machine get it checked out and don't use it in the meantime. o'When you forward or reformat a dieu, use DECKTT to VERIFY It. This takes a few seconds extra but may avoid problems later.
d) Try to get a mains smoothing device, or at least try to arroid using a ring main with other devices on it without switch on and off – fridges, devices on it without he without and off – fridges,

freezers etc. – or which carry heavy loads.

e) Always put the write-protect tabs on the disc.

if you don't intend to aiter anything. Take care
to swop discs properly when copying.

here were write the machine on or off with a disc
in a drive. This can cause a power surge.

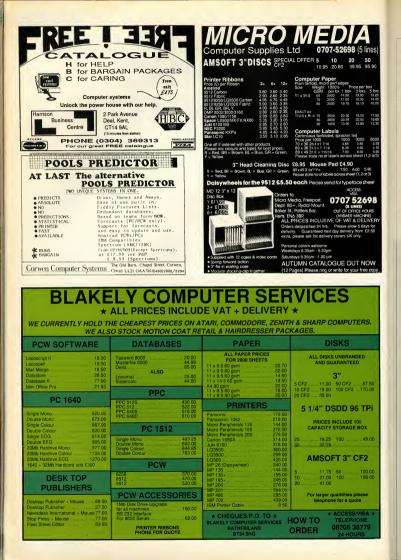
g) Avoid magnetic fields (telphones, speakers,
children's toys, magnets or the odd X ray
machine you have lying around in your study)

h) Avoid static – earth yourself before you touch
the PCW. Get an antistatic mat, wear clothes

containing less nylon and keep a pot of water in the room but away from the machine.

i) Physical damage to the discs can be caused by touching the brown surface, moving the computer while the discs are in use, or by extracting the disc while it is being accessed. Walt until the red light has stopped and you can hear the disc motor stop spinning.

j) Don't leave the discs around for long periods. The screen has strong magnetic fields. Recycle them frequently, reformatting and verifying.



LISTINGS

Eat what you watch! A type-in Pacman... and more...

PACMAN by P. Venton

veryone and their friend has played Pacman: in the arcades, on the ZX81... now you can do it in Mallard Basic on the PCW. However, there is always room for a new version of an old idea. This particularly elegant version uses only the cursor positioning strings

to perform its magic and yet still achieves enough speed to be playable.

The Q and A keys control vertical motion while the K and L keys change to horizontal. The Pacman character moves continuously once started and if allowed to leave the playing window simply re-appears from the other side. You eat all the blobs in the fastest time nossible

By the way Mr Venton, I've lost your address. Give me a ring I'll send a cheque.



```
10 enc$=CHR$ (27): bel$=CHR$ (7): RANDOM (ZE 8: cls$*resc$+"F" tosc$+"H"
                                                                                                                                     1472
 20 con$ esc$ + "e" : cof$ esc$ + "f"
 30 ston$=esc$+"1":stof$=esc$+"0"
30 stons=mods**1"; stofs=mods**0"

(homes*=mods**1"; smynds=mods**7"

(b) homes*=mods*1"; smynds=mods**7"

(c) PRINT TABGGO; "Movement Keys ":PRINT

(c) PRINT TABGGO; "Movement Keys ":PRINT

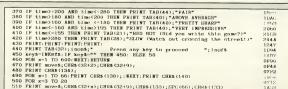
(c) TABGGO; "Laft : k"

(c) PRINT TABGGO; "Right : L"

(c) PRINT TABGGO; "Right : L"

(c) PRINT: PRINT TABGGO; "Right : L"
                                                                                                                                     Olitan
                                                                                                                                     1627
                                                                                                                                     OCCB
                                                                                                                                     1502
                                                                                                                                     11CD
                                                                                                                                     1479
100 key$=INKEY$: IF key$="" THEN 100
                                                                                                                                     1080
                                                                                                                                     111D
110 PRINT clas: GOSUB 470
                                                                                                                                     0111
                                                                                                                                     ONES
130 b=INT(RND(1)+16)+4:a=INT(RND(1)+65)+10
                                                                                                                                     1059
140 IF pills(a,b)<>1 THEN pills(a,b)=1: ELSE GOTO 130
150 PRINT moves; CHRs(32+b); CHRs(32+a); CHRs(188):
                                                                                                                                     179B
 160 NEXT
                                                                                                                                    0424
170 x=INT(RND(1) *65)+10: y=INT(RND(1) *16)+4: iF pills(x, y)=1 THEN 170
                                                                                                                                     1000
                                                                                                                                                 (1
 180 PRINT moves; CHR$ (32+y); CHR$ (32+x); "C";
                                                                                                                                     11D7
```

```
200 PRINT homes; "Hit a key!"
210 keys=INKEYs: IF keys="" THEN 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0C48
  220 time=0:count=0:keys="":dis=""
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0892
  230 WHILE count <> 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OWAH
  240 time=time+1:IF a=x AND b=y THEN GOTO 280
250 PRINT moves; CHRs (32+b); CHRs (32+a); ";
260 PRINT moves; CHRs (32+y); CHRs (32+x); "C";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1103
  270 a=x:b=y
270 a*xip3 a*xip
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1601
320 IF dis="" UK dis="L" Them x=xx:::IF XYO HEM X=10
330 IF pillada, b=1 THEM count=count:|pillada,b=0:PRINT bel$
340 PRINT homes; "Time: ";time:VEND
350 PRINT cls:PRINT TABO(37);"...Maze completed...":PRINT:PRINT:PRINT
360 PRINT TABO(17);"Time taken: ";time:". Your reflexes are: ":PRINT:PRINT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 DEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ODH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (2`
```



530 FOR x=1 TO 66: PRINT CHR\$ (138); : WHXT: PRINT CHR\$ (137): RHTURN

520 PRINT SPC(9); CHR\$ (131); : NEXT



CHECK 2 -THE SEQUEL

by Adrian Wilkins &

ue to the large number of complaints concerning the Checksum program, to wit, that it doesn't actually work properly, here is the revised version. You will notice that the mistake lay in the line now numbered 200; well spotted, Mr Crane, and a double issue of Browlie points.

All future listings will be printed with checksums from the revised version to be known henceforth as CHECK2.BAS to distinguish it from the original.

What it does is produce a number for each line of a listing you're typing in based on the characters you've typed. If it corresponds with the check numbers at the right of our listings as printed in the magazine, you know that line is

How to type in a listing

Load up Mallard BASIC – to do that, insert your CPIM disc, reset the machine and at the A₂ prompt type saxEq[RETURIN, low you see the 'OX' prompt. Just type in the lines of the listing exactly as they are printed on the page (but not the numbers on the extreme right). Type _LIST at any time to print out your typing so far to the screen; if you want a printout to prover, type _LIST.

Mistakes made before you press RETURN can be corrected with the DEL keys, otherwise you have to use the line editor. Suppose you've made a mistake in line 100; type EDTT 100 and then you can use the cursor keys and DEL keys to correct it. Press RETURN when the line is OK. To delete a line, type its number only and press RETURN.

When you've finished, save the program to a disc by the command SAVE "FRED (or any other suitable name of eight letters or less). To run the program, type RUN.

Programs rarely run first time, but when BASIC encounters a mistake it tells you where it is. Syntax Error In line 6V means a mistake in that line (though the actual typing error may have occurred in a previous line, causing problems in this one). Other error messages can often occur too. Use the EDIT command to correct it.

You can rerun the program another day by loading BASIC up as before and, with the disc on which you saved the program in the drive, typing LOAD "FRED and then RDN.

OK. If it's different, you know there's a discrepancy somewhere in that line.

When you RUN "CHECK2 you are asked for the name of the listing to produce check numbers for. Give the name (including drive, or inserting the disc with the program on it if necessary) and the listing will be printed out on your printer with the appropriate check numbers at the right of each line. You must have saved the listings to be checked in ASCII format: instead of just typing SAVE "PROG. BAS you type SAVE "PROG. BAS", A. Programs saved as ASCII work just the same as normal programs and can still be listed, printed out and so on.

If you want your checksummed version to appear on screen instead of on the printer, change the LPRINT in line 220 to PRINT.

10 LPRINT CHR\$(27)+"m1"	093E
20 LPRINT CHR\$ (27)+"E"	08A5
30 LPRINT CHR\$ (27) +" R" + CHR\$ (0)	0B43
40 LPRINT CHR\$ (27) +"d"	CA80
50 PRINT"Do you want pica": WHILE is="":is=INKEYs: WEND	1053
60 IF UPPER\$ (1\$)="Y" THEN LPRINT CHR\$ (27)+"M"	12DF
	0F2D
70 INPUT "Program name ",prog\$	14E4
80 IF INSTR(progs,".") = 0 THEN progs=progs+".bas"	
90 IF FIND\$ (prog\$)="" THEN PRINT "Program not found" : PRINT : GOTO 70	2215
100 OPEN "I", 1, prog\$	071C
110 WHILE NOT EOF (1)	092B
	AABO
120 LINE INPUT #1,2\$	05FB
130 vs=UPPERs (z\$)	0.51-15



140 check%=0 : j%=0	06BD
150 FOR 1% = 1 TO LEN(y\$)	09BE
	106F
160 y%=ASC(MID\$(y\$,i%,1)) : IF y%=32 GOTO 210	OAGF
170 IF y% <> &HFC GOTO 190	107B
180 PRINT "Save it in ASCII" : END	
190 1% = 1% + 1	0301
200 check% = check% + (y%-32) * (j% MOD 7 +1)	ODEF
210 NEXT	0417
220 LPRINT z\$; TAB(76); HEX\$ (check%, 4)	0F88
230 VEND	03F4
240 CLOSE 1 : LPRINT CHR\$(18); CHR\$(12);	1089
	036C
250 END	0300

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PLEASE NOTE: EASY LABELLER is a purpose designed program and NOT a database adaption. The need to deal with disc files is NOT REQUIRED, THOUSANDS of satisfied customers, both experienced and first time users, have found EASY LABELLER invaluable for producing MAILING LISTS, TICKETS, CONTINUOUS ENVELOPE ADDRESSING as well as a QUICK and EASY filing system.

his handy utility is the equivalent of 'Direct Printing' in LocoScript, but it works from within BASIC. It's for those times when you're in BASIC and want to write down that phone number from the TV advert or jot down the idea you've just had for a blockbusting novel. The problem is that you don't have a pen and paper handy because of your paperless office and it's a bit of a fag to go back to CP/M to get a paper copy of the message.

With this utility on your disc all you have to do is type RUN "MEMTYPE and the cursor is replaced with a flashing underline character. Type your text; the cursor can be moved back over existing text to overwrite it. [RETURN] sends your line to the printer and waits for a new one

Stop to exit; you're still in BASIC and can continue from where you left off.

Good programs needed!

We're looking for well written programs of up to 50 or so lines which we can print in these listings pages each month. Of course, since we can if the ore of the shorter listings in, and they're easier to type, the longer ones have to be really special, and the ones over 50 lines have to be mind-blowing!

We're only interested in BASIC or maybe Logo listings... at the moment, anyway

If you can program you could earn hard cash and instant fame by having your program printed in 8000 Plus. Give instructions on an accompanying sheet for using the program, and if there are any useful modifications that readers can make by simple edits to customise the program, mention

To submit a listing you must supply:

A printout of the listing;
 A disc on which it is saved:

3) A stamped addressed padded bag for its eventual

4) An explanation of what it does, why it's useful and how to use it:

5) A slaned statement confirming that the program is your own work and hasn't been submitted to anyone else - and hasn't been lifted from another sourcel Send all this to Listings, 8000 Plus, Bath BA1 1EJ and allow up to 40 days for the return of your disc; we assess the listings in a batch once a month.

It's amazing how many programs submitted to us just don't work! When you've finished your chef d'oeuvre, get someone else to test it using only the documentation you plan to send, and assume we're not as bright as you are. If your stuff doesn't run properly there simply isn't the time for us to find out

Put your name and address on the outside of the disc itself - not just the case - and a copy of the documentation on the inside as an ASCII file. (Use the LocoScript 'Simple text file' option). This is the opposite of a paperless office, sometimes it gets knee deep in here...

And finally, upgrades to previously published work constructive criticisms and suggestions for

improvements would be appreciated. Over the coming months we hope to Introduce a number of innovations to these pages; watch this

```
10 OPTION RUN: esc$=CHR$(27): syscurson$=esc$+"e": syscursoff$=esc$+"f"
20 ulineon$=esc$+"r": ulineoff$=esc$+"u"
                                                                             1296
25 cls$=esc$+"E"+esc$+"H": lmarg=1: rmarg=91
                                                                             1224
30 DEF FNat$(x,y,a$)=esc$+"Y"+CHR$(31+y)+CHR$(31+x)+a$
                                                                             1376
  GOSUB 170: PRINT syscursoff$; cls$
                                                                             12FC
40 speed=70: count=INT(speed/2):
                                                                             1524
                                  toggle=0
                                                                             1010
50 IF count=speed THEN GOSUB 230
60 count=count+1: in$=INKEY$: IF in$="" GOTO 50
                                                                             15DA
70 IF ins=CHR$(13) THEN GOSUB 160: GOTO 40: REM carriage return
                                                                             1 DC4
80 IF ins=CHR$(1) THEN GOSUB 200: GOTO 40:
                                             REM cursor left
                                                                             1812
                                                                             1B31
                                             REM cursor right
90 IF in$=CHR$(6) THEN GOSUB 210: GOTO 40:
100 IF in$=CHR$(127) THEN GOSUB 220: GOTO 40: REM [ <-del]
                                                                             1 R50
110 IF in$=CHR$(3) GOTO 150:
                                             REM press [stop] to end
                                                                             1A07
                                                                             1351
120 IF point=rmarg-10 THEN PRINT CHR$ (7)
                                                                             22ED
130 IF point=rmarg THEN PRINT CHR$(7) ELSE GOSUB 190: point=point+1
140 GOTO 40: REM ***** MEMTYPE. BAS by Mike Ellison
                                                                             1941
150 GOSUB 250:
                PRINT syscurson$: END:
                                          REM bye bye
                                                                             1946
160 GOSVB 250:
                LPRINT line$:
                                          REM car ret & printout
                                                                             1964
```

```
2006
170 point=1marg:
                  line$=SPACE$(rmarg-1):
                                           PRINT FNat$(lmarg, 5, line$)
                                                                             0522
175 RETURN
180 point=point-1: in$=CHR$(32): GOSUB 190:
                                                PETHON.
                                                          PHW rubout
                                                                             1 FFD
190 MID$(line$, point, 1)=in$: GOSUB 250:
                                          RETURN:
                                                          REM add new character
                                                                             22F4
200 IF point=1marg THEN PRINT CHR$(7): RETURN: ELSE GOSUB 250: point=point-1
                                                                             2795
                                                                             050F
210 IF point=rmarg THEN PRINT CHR$(7): RETURN: ELSE GOSUB 250: point=point+1
                                                                             27B6
                                                                             0512
220 IF point=1marg THEN PRINT CHR$ (7): RETURN: ELSE GOSUB 250: GOSUB 180
                                                                             23C5
225 RETURN
                                                                             0515
230 IF toggle=1 GOTO 250
                                                                             OASF
                                                                             20D4
235 PRINT FNat$(point, 5, ulineon$+MID$(line$, point, 1)+ulineoff$)
240 toggle=1: count=0: RETURN
                                                                             OEAB
250 PRINT FNats(point, 5, MIDs(lines, point, 1)): toggle=0: count=0:
```

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Time adds up

You can use LocoMail to add up times in minutes and seconds for you, saving a lot of tedious calculation. The method here totals times inserted in a document, and is very useful if you need to add up times taken for each part of, say, a play script or an outline for a meeting.

There are three units which you type in to the document as you go along. Put unit A at the very beginning. It sets up a counter, which you can set at zero, if you're starting from scratch, or at any other duration in minutes and seconds if you're continuing from somewhere else. Then paste unit B wherever a timing is to be inserted. At the very end put unit C. Unit A:

(+Mail) mins=?#:

secs=?#(-Mail) Unit R

(+Mail)min=?#;sec?#(-Mail) (+Mail) min (-Mail) m (+Mail) sec (-Mail) s (+Mail)mins=[mins+min]:secs=

[secs+sec] (-Mail) [RETURN] Unit C (+Mail) secs=[[mins*60]+secs]

:mins=0:minloop="(+Mail) [RETURN]

#secs>=60:<:mins=[mins+11:fi nish=1:secs=[secs-60]:><:

Donnerwetter! Zut alors! Ah so!

In der Locoscriptdokument grosse probleme? Est-ce qu'on ne comprend pas le LocoMail? CPM de wis komatteru no? Don't just give up and say it's ail Greek and double Dutch, come to Tipoffs, the best plain English advice pages in anybody's

initiouse.

If you have a piece de resistance in LocoScript, a way to say sayonara to that problem in Mini Office, or a bit of Versprung durch Technik in CPM, tell us – the best win £30, three hundred francs, ninety marks or seven thousand yen!

The money this month goes to Colin Dennison of Brighton for his LocoScript collection, and John Blandford of St Albans for his LocoMail price lists.

Printer idle. Using A f4=Size f5=Page f7=Syell f8=0 il) sins=?#:secs=?#(#;##i)? iming for play 'The Bath Soap'e Scened Mail) They access ((-Hail) (*Mail) The (-Hail) n (*Hail) 500 (-Hail) s v Mail) Institute the Ecosystop (-Mail) +++Andy neeting the vegians in Matchetts. ins [secon](-Mail) (Mail) ID(-Mail) n (+Mail) BEG(-Mail) s e lins (install) secons (respire)(-Mail) - At the night club. int. Bob goes home early and names it all.e inserinsiningscouls (state) in (+Mail) or (+Mail) see (-Mail) see (+Mail) see Hail)secs=[mins=60]+secs|:mins=0:minloop="(+Mail)#

group 0/TDES Fill document. jout 1 Fil2 LS1 CR+0 LP6 Actions f2=Layout f3=Style Printer idle, Using A Page 1 f7=Spell f8=Opt f4=Size f5=Page Timing for play 'The Bath Scap' 2 m 45 s Andy meeting the Norwegians in Hatchetts. and misses it all. At the might club. The fight. Bob goes home early 1 n 20 s Next morning. Dilie wakes up and cannot remember what happened. Total time: 8 mins SS secs

finish=0:>[RETURN] (-Mail) [RETURN] %minloop@finish(-Mail) [RETURN] Total time: (+Mail) mins (-Mail) m (+Mail) #secs<10:<(-Mail) 0(+Mail)secs(-Mail) s

(+Mail) ><:secs(-Mail)"

When you've finished, use FILL mode. You go through the document inserting timings at each place where unit B prompts you. and you'll get a total at the end (with minutes and seconds counted up correctly for you). You can save the filled script in the usual way. and make adjustments and alterations to the insets in subsequent fills.

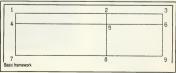
If you deal with hours and minutes - for timesheets perhaps you can use exactly the same routine as above, but replacing 'm' by 'h', 's' by 'm', 'min' by 'hr' and

'sec' by 'min' etc. Of course you can use the [EXCHANGE] facility to make the changes Malcolm Ruthyen London

Boxing match

One deficiency of LocoScript has always been its inability to print out boxed tables of figures. However, version 2.12, with its ability to redesign up to 16 characters if you buy the add-on program from Locomotive called Locochar, remedies this. Here are some useful patterns to create which make box drawing easy.

In a typical table as shown in Diagram A there are nine different kinds of junction but they are all derived from one basic cross pattern (which is junction 5) by deleting either one or two arms of the cross. To design the characters



TIPOFFS

you need, all you have to do is follow the instructions to get Locochar up and running and in due course the grid patterns for Locochar [0] will appear. Ignore these and press 5 to get the patterns for Locochar [5] on the screen. Delete all three patterns by pressing the 'delete right' key and then enter the patterns shown in Diagram B to produce Locochar character [5] on the screen. Copy

Y1 : HOGH GOWSTTY	F3 : DRAFT	F5 : SCREEN-
	\$ - \$ - \$ - \$ - \$ - \$ ·	******

them to the Scratchpad using CUT. Now work through Locochar characters [1] to [4] and [6] to [9] one at a time by pressing the appropriate number. When the grid patterns of the old character have appeared press COPY to replace them with the basic cross patterns. From each pattern delete the parts of the cross that are not required for the correspondingly numbered junction and, when you have done

Tetrishhhhh!

One of the problems with Tetris. apart from its addictiveness, is that annoying beeping that accompanies the drop of every brick. However, with a bit of ingenuity you can silence it.

The idea is to play Tetris, then copy the four files (blank), A. B. and C (yes, one file has a name consisting of blanks!) from your Tetris master disc to a new disc. Then you rename the file with a blank name to TETRIS.COM using LocoScript, then use SID to change the byte at OCEF in the file C to 3A. Sounds complicated but it's easy; here's what to do in detail.

Load CP/M and play a game of Tetris. Quit the game as usual and at the A> prompt type DIR -

meaning your Tetris disc. You see the four files blank, A. B and C being copied to the memory.

Next insert a freshly formatted disc in the A drive and type A:=M: * . *[RETURN]. Those four files are now copied from the memory to the new blank disc.

When PIP has finished its stuff, remove the disc in A, which will be your Tetris copy disc, press [SHIFT][EXTRA][EXIT] to reset the machine and insert your LocoScript startup disc. When the disc manager appears, insert the Tetris copy disc, press [f7] to change discs ([f1] in LocoScript 1) and use [f3] ([f5] in Loco 1) to rename the file which was called blank (in Loco 1 its name may now be a string of capital thetas). Give the new name as



TETRIS.COM.

Remove the Tetris copy disc. press [SHIFT][EXTRA][EXIT] and insert the CP/M startup disc. At the A> prompt, insert side 3 of the systems discs and type SID[RETURN]. When the # appears insert the Tetris copy disc in the drive and type RA: C[RETURN]. After a bit some junk appears which you can blissfully ignore; just type SOCEF[RETURN] (the second character is a zero) and a 28 should appear. Type 3A[RETURN], followed by a full stop when the next number shows, followed by WA:C after the

saving some records have been written. Press [STOP] to get back to CP/M Your Tetris copy disc now plays Tetris as normal whenever you type TETRIS - but now,

#. After a bit you see a message

mercifully, in complete silence! Alan Dennis Hinckley

Tipoffs editor adds hastily: If you start making copies of Tetris to run on machines other than your own it's illegal, and distributors Mirrorsoft have lots more money than you or me to pay for lawvers, so don't say we haven't warned you!







you'll see that there are now four files called A, B, C and a blank name. (This is necessary, as before you play there is only a file called TETRIS.COM - don't ask how the directory apparently changes in the meantime!)

On an 8512, first put side 2 of your CP/M discs in the B drive. On either an 8256 or 8512 now type B:PIP[RETURN]; on an 8256, you'll be prompted to 'put the disc for B: in the drive and press any key'. In this case side 2 of your CP/M systems discs is the 'diec for Br'

At the asterisk prompt type M:=A: * . * [RETURN] - on an 8256 you'll be prompted to 'put the disc for A: into the drive',



all three, move on to the next character. This technique quarantees accurate alignment both vertically and horizontally.

For horizontal lines, the dash ([ALT] hyphen) lines up exactly to make a continuous horizontal line and the unshifted hyphen produces a broken line if you need it.

That leaves you with six Locochar characters (A) to (F), You can make these extra characters to embellish the original boxes to your taste - finely dotted lines or double lines for example. Finally a few words of advice

1. Use half-line spacing. When using Pitch 12 this makes the table on screen look twice as high. compared with its width, as it will eventually print out. (Other pitches have other ratios).

2. Cancel any carriage returns extra before you start - setting up a stock layout specifically for tables is well worth the effort and enables you to avoid the worst hazards 3. Almost every other (half-) line of a table consists entirely of verticals at predetermined distances apart use [COPY] and [PASTE]. 4. Pitch 10 and Pitch 12 are best Don't try mixing Proportional Spacing with tabular work - a

recipe for disaster! Ilkeston, Derbyshire

SC Beer

this also has the effect of disabling STOP, thus preventing 'break-in'.

The whole process of scanning the keyboard and interpreting the key that is pressed can also be made more efficient by replacing the simple line C\$=INKEY\$ by

C\$="": WHILE CS="": CS=INKEYS: WEND which makes the program wait for the next key to be pressed, so that it doesn't repeatedly loop unnecessarily

through the tests that follow For example, if you want to do something (say GOSUB 1000) when the right-hand arrow key is pressed, you would have a line after the one above containing something like TF CS=CHRS (6)

THEN GOSTIB 1000 Lawrence Simons London

Multiplan organisations

Multiplan is a powerful spreadsheet but is let down by the obscurity of its handbook. For those valiant souls who are still struggling the following two tips may be of help. Printing in condensed print: Using condensed print will allow 10-12 columns of a spreadsheet to be printed across the width of an A4 sheet. To convert the printer to condensed print call up PRINT -

convenient 'named' line/column of the sheet; then enter the new Initial Conditions and run the model and then 'Save'. (The two functions are combined if only 'Save' is used) Thirdly, call up EXTERNAL COPY

and enter data as follows:from sheet: enter name and current spreadsheet. name: enter name of recult line/column

to: enter cell where results line/column is to start.

Alternatively, a set of results can be compiled by using the printer to print out only the 'named' line/column at the end of every run. P A Roberts Rarnetable

NewWord theme

Here's something for users of WordStar/NewWord which gets a more legible print style than normal. The default (ie. usual) settings for pitch and right margin are .cw12 (10) and column 65. With this in the left margin: .cwl4

.rm56

the printed lettering from the PCW printer comes out stretched and thus appears to be slightly darker and more defined due to it being a little thicker. R R Menn Grampian

> +Mail)<u>(CH</u>(+Mail)<u>@h(+FE</u>(-Mail)"∉ , -Mail)(+UL)<u>BOXALL SUPPLIES LID</u>(-UL)≠

give each price reference number corresponding with the sequential listing of the prices across and then down the original catalogue pages - for example, the simple price list in figure 1. This price list can be converted into a merge document by placing this LocoMail unit called X at the top of the first page: (+Mail) X" (+Mail) PRICE:

BOYALL SUPPLIES LTD

Lype	l_box	2 boxes	3_boxes
Al	16,90	15.52	15,21
A2	17,47	16,14	15,83
A3	26,27	24,09	23,65

Fig. 1 Original price list Fla. 1

S+(-Mail)"(-Mail)

All the prices are then replaced by the LocoMail perform instruction: (+Mail) %X(-Mail) At all the places where a price

would normally appear, the PASTE facility comes in useful here. X inserts a price and moves on to the next price in the data file.

The instruction %X says 'do the program X at this point Figure 2 shows the converted

document The LocoMail data file to go with this merge-document is



Codes returned to INKEY\$ when the keys are pressed

Key facts

It is difficult to understand the widespread practice in BASIC of using the W-A-S-Z group of keys for UP-LEFT-RIGHT-DOWN when the PCW has proper arrow keys! These keys all return unique codes when the keyboard is scanned using INKEY\$ and almost all of the 'LocoScript' keys can be used in this way if you know the codes they return. They're listed above.

Certain of these codes (specifically, those for the 'function keys' and the STOP key) will only be returned by INKEY\$ if the command OPTION RUN is included at the beginning of the program;

OPTIONS and enter the following formula in the set up area:-^0^Q139 (where ^ is [EXTRA]U)

Also set print margins with print width of 139. Results on a 'what if' model:

If the spreadsheet has been used for a 'what if' model it's useful to be able to record the results of several runs on the same spreadsheet. This can't be achieved by 'Copying' the results to another part of the spreadsheet as the formulae are also copied and the previous run's results are replaced by the current result. However if the External COPY facility is used only the values are copied.

First set up a copy of the 'initial conditions' and the 'results' on to a UL)<u>Iwpe</u>(-UL)₊(+UL)1 (+Mail

The fame of prices

Even using a word-processor. updating figures in a long document - eq. prices in a catalogue can be a timeconsuming business. You'd normally keep all the pages of a price catalogue as a text file. making any changes to the prices by altering them one at a time wherever they occur in the document, involving laborious use of the cursor keys.

Using LocoMail, it's much easier. The basic method is to remove all the prices from the price list file pages and keep them in a data file instead. (The same method here holds for other similar things which need figures to be revised - exam result lists for students etc). Obviously prices in the data file need to be referenced in some way; the easiest being to



shown in figure 3. When the PRICE LIST is

merged with the data file, the prices are automatically inserted into the correct places and the price list can be printed. Using this method, price lists running to many pages can be handled as one

TIPOFFS





document. Alterations to the prices are easily made directly into the data file, the prices are automatically inserted into the correct places and the price list can be printed. By merging again, a new price list is produced.

You can do much more. For example you can increase all prices by a fixed percentage. One way of doing this is to create a data-change merge document that will produce new data files with all the prices increased by a rate determined when it is run.

The data-change merge document that will do this is shown in figure 4. This idea can be taken a stage further to allow only

FFFBFNCF/PRICE4

selected prices to be increased. To achieve this, the structure of the price data file has to contain a further item-name which is called STATUS in figure 5. The status of an item is Y if the price is to be chanced or N if it is not.

The CHANGE-PRICE loop program now has to contain conditional clauses as in figure 6 so as to increase some prices and leave the others unchanged

Further enhancements are possible, eg. by developing the range of status codes, some items could be increased by one percentage and others by another. John Blandford Sandridge, St Albans

Mini Script

Many Mini Office owners use its word processor for writing articles to length, using its instant word counter. The problem comes when you want to print it out – Mini Office isn't as reliable as LocoScript.

Well, when you've finished writing a document in Min Office, just save it as normal and start up. LocoScript. Make a new document, and 'insert text' from [f1] ([f7] in LocoScript 1). The original text comes in (you just delete the first line of junk within appears) and you can now go through adding Loco's bold, latics etc. To make tancy bold, latics etc. To make tancy bold to the control of th

Great Barr, Birmingham

Loco font

Users of LocoFont may be disappointed to find that, if they make new MATRIX.#xx files to hold sets of characters designed with Locochar, there is apparently no way to set up a document, or the printer, to use the new files.

Only 10 character sets can be displayed at a time. Your new character set file can't be selected or displayed on the list, because the other sets have already occurried all the available places.

So what is to be done? First, make room in the list by deleting some less-frequently used MATRIX.#xx files, from both the M drive and your startup disc. Make sure also that the printer is not set up to use any of these (if it is, there will be a tick against the character set, when you go into the printer control screen with (PTR), press [f5] and select the character set option). Then press [f6] from the disc manager screen, select 'for character set' and you will see that the files you have decided to delete now have a ? against them. Highlight each in turn with the cursor, press [CUT], and hey, prestol it disappears from the screen (and from the setting file).

Now there should be room to display your new MATRIX.#xx file, when it has been copied to group 0 on your start of day disc. Add it to the settings file, via the 'write to disc in drive A' option when you leave the settings menu.

Cyril Cofflin

New Malden



Printer tillen led til

Loadsa Loco tips Seven neat tips from Colin Dennison for all LocoScript users. Printing and editing You can't edit a document while it is being printed out. So before printing a large Locoscript document, copy into M drive and print it from there, then go back to editing the original on disc. Errors can be amended in this version while the copy on M prints out. Cameo part

To print part of a page, also



into a complete page of its own by putting [ALT][RETURN] at the beginning and end of the part to be printed. Then choose 'Print some pages' from the print menu and give the appropriate page as the only one to be printed.

preferably in M, make the part

To split a long document in two, type in \$ near the middle. Then copy. In the first copy,

[FIND]\$
[CUT][DOC][CUT]. In the second copy,
[CUT][FIND]\$[CUT]. If the document is likely to contain \$, make your marking entry \$\$. Delete afterwards.

Remind me to ermm... Make reminders or diary notes in TEMPLATE.STD. You will then get a reminder each time you create a new document to your usual letter template. Play it straight

Play it straight
Avoid proportional spacing, and
therefore SuperType or LocoFont
if your document has tables which
need to be straight.

Nice accent
If writing in a foreign language,
store accented letters as phrases:
[PASTE]N for a n-tilde is easier
than remembering the keystrokes
to get a tilde as normal.
Addressage

Address labels are most easily printed on long continuous rolls of sticky paper. Ignore the perforations; if any, cut with scissors. Colin Dennison Brighton



paragraphs. [Including a screen of examples.] There are also some special offers for Christmas, for details send s.a.e. to:

Dragonfily Designs, 58, The Shrublands, HORSFORD, NR 10, 3 EL.

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Mallard BASIC The BASIC on the PCW

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WEND E- WHILE
black the end of a Vental lamp. Command Early Command
GET GOSUB
Out record from readom or larged Str. Command Co. Con Substantian
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These pages provide a comprehensive guide to the Amstrad PCW software, Published in three monthly parts, this time it's the turn of Word Processors (including Desk Top Publishers), Accounts/Payroll packages and Utilities. We've set out to cover every important piece of software we could lay our hands on, and to give you enough information to decide whether they are suitable for you. All software will run on both the 9512 and the 8000

series machines, though the former's daisywheel printer

cannot print graphical output

The selection isn't comprehensive, but the software listed here represents what we think is the best of that currently available.

As well as a brief summary of what they do, the main Plus and Minus points for each program are listed – Pluses have a ▲ by them, Minuses a ▼ . Those we think are particularly noteworthy have a corner flash. Have fun window shopping!

• WORD PROCESSORS

LocoScript already comes bundled with its own word processor, so you might not think of buying another one as a priority. In fact, whatever you may have read in some magazines, LocoScript is a pretty good wordprocessor and you won't find many editing and layout functions it doesn't have. Its principal disadvantage was its slowness, but the release of Locoscript 2 has lessened that.

There are advantages to be had in changing. LocoScript cannot run from CP/M, and this may cause you trouble.

Many other word processors have a built-in mailmerger' program. This is a way of doing bulk mailshots; you store your address list in a data file, and write a letter with labelled gaps where you want the names and addresses to go. Then, when you print, the letter comes out once for each address, with the information in its correct place. Also, you often get a spelling checker thrown in free - look for one which allows its dictionary to be modified so you can include non-American spellings.

One thing's for sure, whatever word processor you buy it will be totally different to operate from LocoScript. The PCW keyboard is custom built to run it, and if you change you may have to get used to some arcane choices of keys to do even simple operations. Also, you won't be able (very easily) to use all the printer styles that you can in LocoScript, though there will be enough to get by with.

LOCOSCRIPT 2 £19.95 · Locomotive Software · 0306 740606 As bundled with new 9512, the new version of everynne's first

word processor, If you know how LocoScript 1 works, you'll h minimal relearning to do, and it puts right (almost) all the defects of the old version at a rock bottom price. Greek and Cyrillic alphabets, and version 2.12 even lets you define up to sixteen racters of your own design DI LICEC . MINI ICES

- 'Find page' command makes moving around faster
- Superb range of foreign accents and symbols available Can now drive daisywheel and other printers Has DISCKIT's formatting and copying built into it
- New 300-page manual Mailmerger and spelling checker not included Inconvenient for regular CP/M users
- ▼ Still no word counter!
 ▼ Still slow at Find, Exchange and scrolling

LOCOSPELL £19.95 · Locomotive/Amsoft · 0306 740606

The ultimate spelling checker for LocoScript users. It is run as a simple menu choice while you are editing a document norr and you can check either an entire document or only a paragraph. When it finds an error, it suggests a correction. Reasonably fast, given LocoScript's inherent sloth. PLUSES: MINUSES

- ▲ Runs totally from within LocoScript Can do small sections of a file
- Suggests alternatives for misspelt words Reformats the text as it makes corrections Provides the much-missed LocoScript word counter Can't remove spellings you don't like (eg -ize) from
- The manual gets bogged down sometimes
- Slow at scrolling the dictionary window

LOCOMAIL £29.95 · Locomotive/Amsoft · 0306 740606

nerger for LocoScript, it's difficult to see how anything uid be better than this. It runs directly from LocoScript, and can process any LocoScript commands. Has many advanced

- features and is highly recommended for all LocoScript users. PLUSES MINUSES You don't have to run it from CP/M
- ▲ Can print any LocoScript text formatting comma
- Can automatically rejustify paragraphs after insertion Can insert numeric calculations into letters
- Can read data from non-LocoScript (ie: ASCII) files
- Large manual, with example files on disc
- ed separate program to sort and filter addresses before a

PROSPELL £29.95 · Arnor · 0733 239011

- A stand-alone spell checker for use with almost any wordprocessor that runs on the PCWs. Reads LocoScript WordStar and ASCII files, and allows you to make correct directly, view the context, change the dictionary etc. Specify which machine when buying.
- PLUSES · MINUSES ▲Checks LocoScript and WordStar documents directly.
- ▲Displays the context of a suspect word
- ▲Can edit misspellings directly from Prospell
- ▲Anagram and crossword solvers too
 ▼Processes files of 15K or more in sections

powerful PROTEXT/ POCKET PROTEXT £59.95/£39.95 · Arnor · 0733 239011

V

or. Very fast at moving around large files, and packed with features. Works with key combinations rather than menus, but uses LocoScript keys too. Comes complete with a good speffing checker, a lightning fast word counter and a very powerful mailmerger. 'Pocket Protext' is stripped down version – essentially the same word processing features, but no spell checker or mailmerger, and lacking one or two incidental facilities like two column printing. Specify which machine you have when buying.

THE GOOD SOFTWARE FILE

WORD PROCESSORS + ACCOUNTS/PAYROLL

DI HOCO, MINH ICCO

- ▲ Complete with spelling checker/word counter ▲ Packed with features, eg. calculate facility, text editor for
- writing programs, 'print to screen' option etc.
- Lets you work with two documents at once
 You can do all of CP/M's functions without leaving Protext
- Very fast at moving around, doing exchanges and so on Extremely powerful and flexible mailmerner
- ou to learn another new set of control keys to use it
- Printing labels is virtually impossible Not as slick as LocoScript in its printer controls

MINI OFFICE

£29.95 • Database • 0625 878888

The word processor module of this five program package is you lest and powerful, with a word counter, but suffers from a mass straight and powerful, with a word counter, but suffers from a mass of bucs in file saving and printing (and proportionally spaced pullfied print takes ages): doesn't yet rival Loco Script or Protext. PLUSES MINUSES

- Very fast and packed with features
 Unlimited headers and footers (eq. for footnotes)
- Can access printer directly (eg. for graphics) A Screen can show exactly what will be printed out, italics,
- bold, pitch changes and at Currently riddled with bugs in printing, file handling, etc.
- No obrases facility

TEMPDISC

£11.95 • Thurston Brown • 0395 68385

A set of ready made TEMPLATE.STDs made up of fancy patierns of exotic characters for you to embellish and use with LocoScript Essentially for social/hersonal husiness use. You could win £10 from the suppliers by designing your own PLUSES - MINUSES

- ▲ Using it tells you a lot about the intricacles of LocoScript
- You could write your own templates for free by reading the LocoScript manua

EASY LABELLER 934.44 · M.A.S.S. · 0603.630768

Labelling program which stores your names and address list and will print out in label format selected items from it

- PLUSES MINUSES
- ▲ Useful options like printing out current date Good search facilities
- Range of printing options will fit most stationery Data needs an entire disc to itself
 Data entry is slowed by constant returning to main menu

NEWWORD

£69.00 • NewStar Software • 0277 220573 NewWord exploits the WordStar market by doing the same job batter. It uses much the same key commands as WordStar and

will even edit documents prepared under WordStar. Comes with a spelling checker, and the on-screen help is better than WordStar's, though the keystokes are still as obscure PLUSES MINUSES

- ▲ Does everything WordStar does, even reads WordStar files Spelling checker included
- Can un-erase words and lines
- Onscreen help better than WordStar's

- Full reformatting of text within mailmerger Weak on use of keypad and printer support
- ▼ Like WordStar, formatting troubles and obscure commands

ABEL PRINTER £25.00 • Microdraw • 0622 685481

Very similar program to Easy Labeller if not quite as powerful Usual features of a labeller and you can store comments with

- each label's data PLUSES: MINUSES Menus simple - easy to get the program going
- ▲ Fast data entry
- Can store comments with each entry
- No import or export of data ▼ Data needs an entire disc to itself

ANSIBLEINDEX £29.95 • Ansible Information • 0602 62576

Takes a LocoScript file and compiles an alphabetical index with page numbers from all the words marked. You mark the word to be indexed by using LocoScript's (+RV) code. The price includes the AnsibleCheck word counter/proof reader program too, which

Easy to

is also available separately at £14 95 PLUSES MINUSES

- LocoScript documents don't have to be converted to ASCII
- Can 'invert' phrases, eg 'Smith, Fred' or 'Fred Smith'
 Can produce a single index over several different files
- Output index not LocoScript document must convert it Can only index words appearing literally, not general tonics

POCKET WORDSTAR

£49.95 • MicroPro/Davis Bubin • 0386 853610

For many business users, word processing means Word Sta

ost everything you could need in a text processor is here and despite the title this "Pocket" version has all the feat the original. Efficient and proven, but now showing its age and there are alternatives unless you are committed to WordStar already. £20 extra buys the De Luxe version with spell checker

- PLUSES MINUSES Probably the world's most widely used word-proce Documentation is complex but well-structured
- Includes a mail merge utility a mail melge unity a commands fully described on on-screen
- You can save your own favourite customised version of the orogran
- Doesn't make full use of the PCW keyboard and printer Page and margin formatting cor

• ACCOUNTS • PAYROLL •

VITAL SAVINGS **PROCESSOR** £29.90 · Vital Software · 0732 810330

one with a reasonable portfolio of stocks and shares. Program tells you your 'net worth' like a balance sheet is elicited by question and response PLUSES: MINUSES

- Fast and efficient way of keeping track of share values Cupstings asked are not always relevant to your people
- have to be keen to do all the background research

VITAL INSURANCE PROCESSOR

£29.90 • Vital Software • 0732 810330 Will help you make an inventory of all your possess a value on them. You divide your possessions into categories of oce and make a systematic list, room by roo PLUSES · MINUSES

- tories completed room by room Detailed coverage of the policies themselves (eg:
- Simple way of finding out what your property's worth Again, you have to be keen; it's time-consuming

VITAL INCOME PROCESSOR

£29.90 • Vital Software • 0732 810330

- By typing in income and outgoings at regular intervals, the program will keep an accurate track of your money. It will store program will keep an accurate track of your money. It will store details of standing orders, say, and their frequency. It's a logical ils or cheques have been paid
- PLUSES · MINUSES
- ▲ All information is entered by on-screen prompts
- How various of the operati Difficult getting the information you need from the manual

CHECK ACCOUNTS PROGRAM

£9.95 • M E Hodges • 03722 75053

ach more detailed accounts package, which allows you to make forecasts and keep track of the interest charged on your personal finances. Simple to use and the program also allo you to jump to any time in order to work out any interest accumulated in the meantime PLUSES - MINUSES

- ▲ Easy to learn from demonstration files supplied
- Interesting use of time scales
- ▼ Only useful for the really organized

DIGITA BUSINESS CONTROLLER

£69.95 • Digita International • 0395 45059

Not a full accounting system, but a very easy-to-use package with an excellent manual. Nominal ledger already set up and you can be up and running in minutes. No aged creditor/debtor lists can be produced, and problems with VAT handling- not really for

For other small business it's very good value PLUSES - MINUSES ▲ Delight to use with a very good manual

- incial ratios can be included in reports VAT handling very cumbersome, suit non-VAT business
 - No facility for producing aged debtors/creditors list

BOOK-KEEPING AND ACCOUNTS £57.50 (£80.50 with stock control) • Manx Tapes • 0624 813071

Supplied with a very useful introductory demonstration disc, the program advocates a very traditional style of double-entry bookkeeping. Program has high degree of flexibility PLUSES MINUSES

- Solid, traditional approach to double-entry book-keeping Program doesn't make full use of the PCW
- Screen promots not always that helpful Written in BASIC, so prone to sluggishness

COMPACT **ACCOUNTS** £199.99 • Compact Software Ltd • 0703 611214

Another very large integrated package supplied on several discs and consisting of sales, purchase and nominal ledger together with invoicing. The package is available on much larger micros, and since the format in which data is produced is the same as

- on PCWs, the system is particularly suitable for users planning to upgrade their hardware at a later date PILISES, MIMILISES
- ▲ Audit trails are an auditor's drea Data can be used in WordStar, Multiplian or SuperCalc 2
 Superb prepayment facility
- Can run a number of companies separately
- Easily transported to bigger computers

ANAGRAM

Lots of disc swapping necessary Can be slow to use - it runs in Mallard Basic Quirks in cash allocation routine and account code system

ACCOUNTS £86.25 • Anagram Systems • 0403 59551

Sophisticated package for users familiar with accounts. Small details (discounts, VAT) handled well but no permanent records are kept on disc; you must use its report printing options. PLUSES: MINUSES Invoice printing is easy

- ▲ Handles customer details efficiently

 ▼ Key response
 - Key presses are rather obscure
- ▼ Best to have some idea of accounts before using it

M.A.P. ACCOUNTS £149.95 • MAP Systems • 061 624 5662/3

This is a very powerful package moved onto the PCW at a Ints is a very powerful package micros. The size makes it a fittle fraction of its ocso on larger micros. The size makes it a fittle cumbersome to use, but apart from that there are very few significant problems. The religigated suite includes the same five modules as Camsoft, but they are supplied on four trades of disc, making it effectively impossible for the software to be run as an making it effectively impossible for the software to be run as an ntegrated system on an unexpanded 8256

Nov 88 8000 PLUS 75

HE ULTIMATE POOLS PREDICTION PROGRAM

- MASSIVE DATABASE Poolswinner is a sophusticated Pools prediction aid. It comes complete with the largest database available 2500 matches over 10 years. PREDICTS Not just SCOREDRAWS, but AWAYS, HOMES and NO SCORES.

- and NO SCORES.

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THE GOOD SOFTWARE FILE

ACCOUNTS/PAYROLL • UTILITIES

PLUSES, MINUSES

- ▲ A very comprehensive ▲ Very good audit trails sive and professional package
- s/purchase ledgers can run over different period from
- Facility for handling prepayments and accruals
- Able to print full management accounts
 The size of the programs means lots of disc swapping
- All normal responses need to be in upper case

CORNIX SIMPLE ACCOUNTS

£49.95 · Cornix · 0462 682989

Simple cash-book style package which allows you to keep track of debtors and creditors (though not aged ones). Simple to use and you can make changes if you make a mistake. Slow to use for complex operations and number of entries in given period is imited, but very good simple program for small businesses. PLUSES • MINUSES

- Can correct errors
- Keeps track of debtors and creditors
- Slow for complex operations ▼ Ability to alter figures won't please accounting purists

CAMSOFT PSIL £149.95 • Cambrian Software • 0766 831878

Consists of five integrated packages: Sales, purchase and nominal ledgers, invoicing and stock control. In terms of sophistication it falls somewhere between the Sagesoft packege and the larger systems from MAP and Compact. But it's easier to run than the larger packages since all the software can be squeezed into the M drive. Good package for a small company. PLUSES, MINUSES

- Aready set up for 8256 or 8512
- ▲ No need for pre printed static
- ▲ Excellent sort and search facilities
- Invoices shown on screen as you create them Constant need to input full five-digit account codes
- No final accounts reports available on nominal ledger
 No facility to run the ledgers in different accounting periods.

CAVALIER INSTALL £99.95 • Load & Run • 01-639 6683

A comprehensive integrated package. Comprises 'Intact' unts and 'Instock' stock control, available separately for £59 95 each. Well designed, easy to run and powerful enough

- PLUSES · MINUSES
- Other packages (eq: "Teleadd" address book) can be added ▲ Comprehensive range of features when used as a package ▲ Sophisticated pricing end order features in Instock section
- Flexible accounts, traps most mistakes, useful sum
- Interesting forward planning facility
 Manual gives you a confusing nut Interesting forward planning facility in stock control

SMALL BUSINESS ACCOUNTS £69.95 · NewStar · 0277 220573

Using the split-screen method, the prompt-driven program leads you through the hazards of double-entry book-keeping as painlessly as possible. Again, very useful demonstration likes. supplied with the program. It also handles VAT easily. PLUSES · MINUSES

- Excellent system of screen prompts ▲ Good demonstration files
- One of the easiest double-entry systems for the novice

SAGE ACCOUNTS £100.05 · Sagesoft · 091284 7077

and nominal ledgers. For another £50 you can buy Accounts
Plus which also has involcing and stock control. Armed at small
companies with the emphasis on ease of setting up. But a number of limitations, eg. the package cannot cope too easily with rapidly increasing numbers of customers and suppliers. PLUSES - MINUSES

- Clean, tidy and logical screen layouts and menus

- ▲ Easy to set up and use with excellent documentation
 ▲ Good audit trails and VAT reports ▲ Can produce formatted trial balances

- Restrictive account numbering system Only single Nominal ledger and VAT analysis per item
 Does not cater for settlement discounts
- Won't print remittance advice stips
- Cramped on 9512 printer need 17 pitch dassywheel

MAP PAYROLL £49.00 · MAP Systems · 061 624 5662

- Can amend and re-run at any stage (even after printing) Cash analysis is broken down into departments
- System prevents re-use or amendment of leavers
 Can hold up to 40 standard hourly and weekly wage rates
- Can note up to 46 standard neutry after weekly we No SSP calculation facility (but can record all am-Programs necessitate a lot of disc swapping No printed record of automatic tax code changes

SAGESOFT POPULAR PAYROLL £69.95 · Sagesoft · 091 284 7077

- Any or all employees payroll can be rerun at any stage Full pay history available for all employees and leavers Calculates average pay for holidays etc
- I imited number of additions/deductions
- Doesn't print e list of cheques
- No analysis of additions/deductions

COMPACT PAYROLL

£99.95 • Compact Software Ltd • 0306 887373

- USES* MIRUSES
 Supplied with test data
 Facility to change employees tax codes following budget
- Can run payroll for several companies

 Program available for PC compatibles data transportable
 - Must be run from the master discs Needs input form and check calculation for each employee Once payslips are printed nothing can be changed
 - nsive payroll program

CAMSOFT PAYROLL

£49.95 • Cambrian Software • 0766 831878

- Full payslip displayed on screen, any item can be amended
 Facility for freehand narrative on any payslip.
- Uses M drive for programs to speed operation Built in on-screen help facility
- Search-sort routine for output to screen, printer or disc
- Uses alphanumeric employee codes Screen menus a bit untidy and sometimes difficult to follow
- No listing of cheques

• UTILITIES •

BRAINSTORM £29.99 • Brainstorm Software Ltd • 0895 677845

improved version, reconfigured for easier use on the PCW. Works as an 'ideas processor'; you throw your ideas in any order and then use the program to rearrange them and

- PLUSES · MINUSES Ouick and efficient and easy to use
- Encourages structured thinking Versatile; many different editing facilities
- es must be exact matches Manual is on disc, so you can't consult while using

Results can be fed into a word processor for polishing up

CSTAM £49.95 (PC/PCW) · £59.95 (PPC/PCW) · Newstar • 0277 220573

ideal for people who do regular transfers between PCW and PC and who want to do it quickly. Supplied with CSTAM are the cable to connect the interface to the PC seriel port and 2 discs with the trensferring software. Number of transfer options are available: you can specify certain files, all files or no files for

- PLUSES, MINITEES
- Quick and easy to u
- Also works with the PPC Expensive, you can transfer data without spending money
- You need a serial/parallel interface

PRO-PERFORMER £59.95 • Electromusic Research • 0702 335747

real musical add-on for the PCW. Easy to use software runs on CP/M, has a wide variety of powerful features and is icon-driven. Sophisticated recording facilities and the program will allow you to save compositions as tracks, songs of performances. Ideal for pop and classical musicians. PLUSES • MINUSES

- Icon-based screen
 - Can record lines independently or in an arrangement
 - Punch-in editing facilities
- Facility for slow recording and fast playback Step-time recording for strict in tempo lines
- Tracks can be looped (made to repeat)
 Manual glosses over all of the important things like

- ▼ Can't edit notes individually ▼ No musical notation anywhere
- JUMBO £14.95 • CBS Services • 0736 794422

Finds out in minutes the Mailard Basic command that you've just forgotten. Jumbo is simply a disc with nearly 200 files listing every command in BASIC including a few you haven't even every command in BASIC including a tew you haven't even heard of. When you get stuck for the right command or syntax you just call up the directory and a list of file names is displayed. PLUSES+MINUSES

- Lists all the Jetsam comm
- File lists all useful escape codes
 - Very simple to use and examples provided You can call up Jumbo without it affecting your work on the
- program ▼ Could do it all yourself

JOB ESTIMATING & PRODUCT COSTING £79.90 each • Cornix Software • 0462 682989

Both programs aim to provide help to small busi keeping track of costs. You break down the product you're costing or the job you're doing into a series of costing lines rding quantity and price per component. Program analyses margins and can produce customer printouts. profit margins and ca PLUSES MINUSES

- Excellently-written manuals Simple and robust to use
- Changes in material costings instantly reflected in all quotes
- Neat way of doing on-the-spot quotes
 Only suitable for small to medium-sized busine
- Can't add new components to a description once it's



DAATAFAX Basic Version £39,95 (with Microfile £49,95) with mouse 679.95 • Kempston Data • 0908 677886

Used in conjunction with a personal ring-binder, it helps you to keep track of appointments, names, addresses etc. Also prints out data in a form that will fit the average personal organiser. DITIEEC. MINITES

- Facy to use
- Flexible to allow you to do what you want Generates diary pages - saves buying inserts
- Very useful for name and address organization
 Preparing the data needed can be very time-consuming
- Keeping everything up to date is tedious No particularly sophisticated features

PS-HEADINGS

£11.95 • ORB Systems (01 690 8534) • 8000s only

Software addition to Arnor's Protext word processor. For the first time, you can create headings in Protext documents without having to use a DTP program. Three fonts are available and two print modes DITIEC MINITEE

- ▲ Fonts on offer are functional and suitable for most
- Printed output looks good
- Easy to use 13 variables available, like underlining reverse printout etc.
- Main font variation is one of size rather than style

 Not so easy centring following text

LOCOFONT II £14.95 . Locomotive Software (0306 740606) . 8000s only

A batch of six extra fonts now available, including Old English and flowing script. You can have up to ten styles available at any one time. New characters reproduced surprisingly well. PLUSES • MINUSES

- All accents and characters in any alphabet supported
- Very easy to use
- Can finally get out of that one-pattern print-out
- Can't mix styles in one document Reproduction is not excellent because of 16 dot limitations.

Useful FLIPPER £24.95 • Software Imperatives (0453 886931) • 9512/8512.

This program allows you for the first time to flip between CP/M and LocoScript II without resetting the machine. Ideal for easy import/export of data.

- PLUSES MINUSES Quick simple and easy to use
- You flip back to where you left off in the other environment Works with most CP/M programs and BASIC Works with all variants of LocoScript 2
- Won't work with games that ignore SHIFT EXTRA EXIT Won't work with LocoScript 1 or Mini Office Be careful of hardware when flipping; state of printer or disc

PRO-PUNTER £57.50 · DGA Software · PO Box 36, Ashtonunder-Lyne OL7 9AJ

Not only will this program tell you the most likely outcome of a horserace and calculate the true odds about the probable result. it will also single out those events where the combination of factors is the most advantageous. Replaces gambling element dly-based mathematical probability

- PLUSES · MINUSES Best attempt yet to apply probability to racing odds
- Analyses past form in depth ▲ Used properly, over 60% winners claimed



- Advises you when not to bet too
- Entering race data is time-consuming Expects the user to be a serious racing fan

STOCKMARKET 639 95 • Meridian Software • 01 858 7057

Good for the investor who wants to keep track of the value of his portfolio and an orderly record of dividends for tax purposes. Prices can be shown in graphic format for buy and sell indicators

- based on moving averages DI LICEC - MINI ICEC Very good manua
 - Dividend printout suitable for tax returns

Fail safe default values are irritating

Dividend printed strates for tax returns
Records share-holdings, dividends and cash accounts
Easy price movement analysis by moving average method
Capital gain calculation does not allow for indexing

MARKET MERLIN £39.95 • Burncastle Associates • 0483 36591

Uses an interesting form of technical analysis based on point and figure graphs, coupled with ten analysis models to pick undervalued shares. The user can feed in subjective data which

- helps refine the buy recommendation. 80% success is claimed. PLUSES MINUSES ▲ Unique ability to recommend buy shares Fasy to use
- Comprehensive manual marred by poor spelling and presentation No ability to record sales, purchases or holdings
- No indication of when to set

SHAREMASTER £99.95 • Synergy Software • 05827 2977

A powerful and versatile program designed for the investor who likes to buy and sell shares according to technical analysis. Prices can be charted using moving averages, exponentially-weighted curves. HLo. point and figure etc.. Records transactions, dividends and dealing costs PLUSES MINUSES

- Very powerful features for technical analysis Comprehensive and well-written manuals
- Data is not output in a form suitable for tax returns

ORGMENTOR £19.95 (with binder £29.95) • HPA Systems • 08697 508

Based on making the best of LocoMail (the LocoScript mailmerger). Orgmentor is a suite of programs to create a diary. and name and address file. It also has a task manager (or priority lister) and a money manager. Programs are usually run by merging a program with the latest datafile PLUSES MINUSES

- Works in the familiar ground of LocoMall
- Task Manager forces you to think in an organized way Basic accounting facilities Flexible diary format
- A little complicated to work Needs LocoMail to use it
- nuous paper with the package

LOCOKEY £14.95 • Locomotive Software • 0306 740606

This successor to LocoChar is a keyboard customiser which neans that any key can be made to produce any letter. At the touch of one button, the program will reproduce any one of the PLUSES - MINUSES

- stomisation to any distribution of keyboard letters
- Enables customisation to any distribution of keybos (le, non-QWERTY keyboards) Handles any combinations of accent and character Works with LocoChar defined characters

SUPER TYPE II £1495 · Digita International · 03954 5059

A program for users of LocoScript (1 or 2) and CP/M programs, nodifies the fonts (ie, the look of the characters) the PCW printer. SuperType has 4 'business' fonts and 4 'novelty' fonts, like Olde English. It works by directly altering the relevant files for LocoScript or CP/M, so you only need run it once – after that, the new chosen font is automatically available PLUSES • MINUSES ▲ Once installed, you can totally forget it's there ▲ Genuinely useful range of fonts available ▲ Works with LocoScript as well as CP/M

All LocoScript's print size and style options still work

Doesn't take up any eytra disc space

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MOUSE & DESKTOP £79.95 · AMS · 0925 413501

A whole new way of using your PCW – banish CP/M for ever. For your money you get a mouse and software which emulates the GEM Desktop environment found on PCs. All commands are given by pointing to icons on the screen, not typing at the keyboard. You also get calculator/calendar (etc) utilities PLUSES - MINUSES

- ▲ A genuinely useful desktop orga nted and easy to use
 - Well presented and easy to us Makes CP/M commands easy The mouse can be used with a variety of other software
- Takes up a lot of space in the Midrive Utilities not available while running other pro Can be irritating if you are proficient with CP/M.

Easy to MONEY

MANAGER PLUS £39.95 • Connect Systems Ltd • 01 743 9792

The souped-up version of the personal accounts package Money Manager which would serve a small business or nicely. It acts as a daily diary, over 12 months, recording all incomings and outgoings between up to 9 accounts. Similar sactions can be grouped together, and simple reports can be sted. Money Manager also available for £24.95 PLUSES - MINUSES

- Simple to use, need no accounts or computer knowledge Standing orders can be defined for each month

 Detailed and summary statements can be printed out
- VAT reports can be separated out Can present results as bar charts udit trail integrity
- The statement format is not very flexible

PERSONAL TAX PLANNER £25.95 • Digita International • 03954 5059

Simple program which asks you all the quest your year's tax affairs, and prepares your tax return claim (or bill) Can, for example, find out whether married couples would be better assessed s ised separately or not. Annual updates available

- Needs a minimum knowledge of the tax law
- Forces you to keep your tax details in one place Limited application might only use it once a year
- ▼ Can't handle unusual cases
 ▼ Program undates (for a new allowance level) cost £10

KNIFE PLUS £19.95 • Hisoft • 0525 718181

Plus will copy all uncorrupted sectors on to a fresh disc which you can then patch up without risking the original. PLUSES • MINUSES

Copies all uncorrupted data from damaged discs If boot sector damaged, will copy good boot sector onto disc Requires some knowledge of basic disc structure

Manual not written for beginners WISE ONE

£34.95 • Swallowsoft • see below

One becomes an 'intelligent' program which can, for example, do simple diagnoses according to symptoms you type in. From PO Box 107, Walton on Thames, Surrey KT12 5PQ.

- ▲ Power to be genuinely useful ▲ Elementary arithmetic
- Help screens can be set up for the user Obscure way of writing rules need programming instruct Manual dry and academic

THE GOOD SOFTWARE FILE

TAS-SIGN

£29.95 • Tasman Software • 0532 438301

Takes time to print out but you can print signs of up to five lines of text up to seven inches high with up to 32 characters in each. Four fonts, eight hatching patterns, and you can print lengthways on contin

- Wide range of fonts and shadings
 Long signs will print out in "landscape" (sideways) format
- Long signs take time
- ▼ Some symbols (yen signs etc) won't print out on PCW

DISC MATE £24.99 • Siren Software • 061 848 9233

Disc Mate is a set of CP/M utility programs which bring com-

discreasery operations within the scope of CP/M novices.

Facilities include recovering erased files and making files 'read only (ie uneraseable) DI HEEC. MINIHEEC

- Simple on-screen instructions once you've not started ▲ Allows easy recovery of accidentally erased files
- 'ZIPDISC' program speeds up disc access by 10 to 20%
- Friendly file copying program in case you di Can read both single and double density discs You'll need to understand CP/M hasing

JEEVES WITH **KEMPSTON MOUSE** £79.95 • Kempston • 0908 677888

A 'desidon organiser' which lets you do the mundage functions of copying, deleting files etc. by icons and pointers – you use the mouse to move a pointer over the symbol for 'delete' such as a dustbin and then click a button on the mouse. Also has built in PLUSES - MINUSES

- Avoids a lot of dreaded CP/M commands Continuous time display
 Works from within SuperCalc. BASIC, dBase, WordStar
- Cracker Sage Accounts
- Problems if you try to run it with just about anything else Calculator, watch, notegad and calendar will cost you 95

WRITE HAND MAN £29 95 . Hisoft . 0525 718181

doing - for example, if you are word processing, press the key and up pops a calculator, a notepad, or a diary. Designed to nate paper, but the more advanced functions (notenad) are ersome they fail to be at all useful. Better to buy a £4.95

- Casio calculator and a pencil and paper PILISES, MINI ISES
- Results from calculator can be pasted directly onto files You can re-define the PCW keys to produce strings Manual is technical and incomprohagolate
- Takes up a lot of disc snace and CP/M worksnace

ASTROCALC £15.50 · Astrocalc · 0442 51809

A starter program for astrologers. More sophisticated programs to help the interpretation of the charts are also available DI LICEC. MINILICEC

- Takes the sweat out of creating natal charte Genuine astrological tool – not just a fake horoscope
- No graphical representation of the charts Tutorial section rather pointless

• DESK TOP PUBLISHING •

Desktop publishing - or DTP - packages enable you to produce your own newsletters using your PCW. They come with a variety of fonts of a range of sizes for headlines and body text and a selection of graphics to include in your creations

You read in your articles prepared by a word processor into text boxes. If you can't edit the text from within the program, you have to go back to your word processor to fine-tune the article to fit - this is very tedious. Then you put your graphics in graphics boxes, make up your headlines, and then lay out your publication on the PCW by juggling the position of your boxes on each page. Finally you can get a copy of each page on your printer (though not if it's a daisywheel, of course, as on the 9512) and

photocopy the results. Graphics can be taken either from the package itself or from TV/video via a digitiser.

The results won't be of sufficient quality to compete with the professionals, but for club and company newsletters, leaflets, posters and small publications, DTP could be invaluable.

THE DESKTOP Good PUBLISHER £29.95 • Database Software • 0625 878888

mendous value for money. Graphics and text boxes can be easily moved around and page layout is clear. You can edit text from within the program, using LocoScript-like commands to set bold and italics. Good range of fonts and graphics too, at half price of its rivals! Mouse optional for £50 more. PLUSES - MINUSES

- ▲ Text editor allows you to edit articles to fit the space early
 ▲ Boxes and general layout easy to manipulate

- ss with three mine, but fine with keyboard alone
- ▲ Half the price of other packages

of din-art material on the market

Good range of fonts and graphics, and can design your own Can't fix size of text boxes – they expand to take all the text Headlines can look a bit lagged

SNIP ART.

£7.45 each (6 discs) • Electric Studio • 0462 420222 DTP add-on for Newsdesk International and the widest selection

- PLUSES · MINUSES ▲ Includes wide range of topics: sport, leisure, travel, etc.
- Good quality line drawings ▲ Some of the drawings are digitised photos

HEADLINES £7.99 · WaddSoft · 0253 721303

Three sheets of illustrations to complement The Desktop

- A wide variety of subjects to choose from; sport, faces, hands, etc 12 new fonts supplied Fonts designed on a 16 by 16 pixel grid so they look jagged
- It's easy to distort the pictures
- Program reverses everything on screen so difficult to assess quality before printout
- ▼ Some illustrations, though useful, are imperfectly drawn

MR DTP GRAPHIC LIBRARY £12.50 - £14.50 • Mr DTP (32a Rumburgh

A complete library of images for The Desktop Publisher supplied

PILISES MINUSES

Rd.Lowestoft, Suffolk N32 4JL)

Subjects like transport, animals, zodiac signs, musical

nstruments and sport cover

- Drawings generally of a high standard
- Very expensive Solely clip-art no fonts
- Only exotic animals are shown, not ordinary ones Drawings cometimes a little email

STOP PRESS £49.95 • AMS • 0925.413501

An excellent DTP Package, very strong on graphics, very well designed, and once you get used to it, easy to use. Sophisticated text handling features such as autoflow, but can't edit text - that all has to be done in your word processor before flowing the text in. A lot of good fonts supplied to PLUSES MINUSES

Powerful

Excellent graphics facilities, good as any graphics program Wide range of text styles Menu and key commands system suits beginner and expert

- Text autoflow
- No text editing ability Some quirks in text handling - apostrophes, spacing, etc.

HD COMPUTER AIDED GRAPHICS £7.99 • HD CAD Design • 04867 81394

An add-on package of clip-art for use with Ston Press DTP program. Varied selection of images that can easily be modified

- to suit personal taste PLUSES · MINUSES
- Drawings generally of a high standard
 - Some of the digitised pictures are excellent
 - 12 extra fonts are available on the disc
 - Fonts designed on 36 by 36 pixel gnd so they blow up well Some of the digitised pictures look amate
 - Still strange fetish for doors and windows

NEWSDESK INTERNATIONAL

£49.95 • The Electric Studio • 0462 420222 Versattle package with a very wide range of graphics facilities and high quality headline text. Page make-up is flexible, though the program can be a bit cumbersome, mainly in text handlin Same graphics facilities as Electric Studio's 'Art' package.

- Same graphics faciliti PLUSES MINUSES
- Powerful graphics facilities Good quality print in headlines and large fonts
- Can use font editor to create your own high quality fonts Text handling slow and cumbersome
- ▼ Not easy to undo mistakes

FLEET STREET **EDITOR PLUS** £49.95 · Mirrorsoft · 01 377 4645

The most versatile and powerful package. You can create template-like 'page dummies' if you use several pages of the same format, and handling of text, setting of margins and size of text boxes etc. is well controlled. Tends to stop working abruptly for no reason though and uses memory space extravagantly

- PILISES, MINI ISES Versatile integrated package
- Yersame Integrated package Text handling and editing sophisticated and controlled Can set up page dummies for regularly used formats Crashes occasionally Odd use of memory in text editor
- Still lots of serious bugs ev

NEXT MONTH

The guide continues with DATABASES, COMMUNICATIONS, EDUCATIONAL PACKAGES and PROGRAMMING. After that it's SPREADSHEETS, GRAPHICS and GAMES and the month after that it's

back to this month's categories.

Our intention is to keep publishing the three parts
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BARGAIN

LOCOSCRIPT 2 & AMSTRAID IN W

Published by Sigma Press, this John Hughes book is a friendly, down-to-earth and readable guide to LocoScript 2. Whether you're down-to-earth and readable guide to LocoScript 1. On the Property of the second second to the second second to the second second second to the second seco

an introduction to the world of CP/M If you find the Amstrad manual a bit daunting, then this is for you!

FREE

Copy of Locoscript II wallchart included with this book

DESKTOP PUBLISHING WITH THE AMSTRAD PCW Only £8.50!

Your PCW is a powerful desktop publishing tool - with it you can print everything from newsletters to posters. With the right software for your needs the options open up your computer as a handy way of earning your living. What Mike Milan does in this book is to look at the possibilities

What Mike Milan does in this book is to look at the possibilities. He leaves the actual choice of software up to you and discusses page layout, reproduction methods, printers, fonts, trim marks, photo layouts - all in a clear and heartening prose. An essential companion for DTPers.

BACK ISSUES

We have limited quantities of the back issues listed below. The prices include a nominal 25p postage. All issues contain excellent TipOff sections and a selection of BASIC listings, plus the other regulars. Don't miss the chance to expand your collection.

Issues 1-6 SOLD OUT!

Issue 7 £1.50 Spreadsheets special: LocoScript troubleshooting. Reviews of Cavalier accounts, Personal Tax Planner, Stockmarket packages, Adrian Mole. Order code 8015

Issues 8 & 9 SOLD OUT!

Issus 10 £1.75 Graphics packages compared. £10 database. More on LocoMail. LocoScript templates. Teach yourself Logo. Order code 8018 Issus 11 £1.75 How to recover lost disc data. Installing a second drive. The SUBMIT command. Reviews of Desktop Publisher, Red Boxes, Loaderboard. Order code 8019. S S COMI STRAD POR PRICE PROFILE HN M HU

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BUYS!!

W. IN ONE PUSINESS COMPUTING

Min Office Professional – an incredible value suite of attabase, spreadsheet, word processor, graphites and common programs – is one of the most popular products ever sold through a more of the most popular products ever sold through a more office pages. The problem in using it is trying to brome manual. This book by John Hughes will answer all your questions about the way Min Office works. Each part of the suite, and how it it is not with the rest, is described clearly and

thoroughly.
To take Mini Office to
the limit, look no further!

Order Code 8042

20 3" disc labels in four colours are included free when you order the Mini Office book through these pages.

PICKS OF THE MONTH

Save EEE'S on these top PCW entertainment programs!

HEAD OVER HEELS Only £9.95! (RRP £14.95)

The incredibly-animated program from Ocean in which you control TWO separate characters, using their different abilities to solve some mind-bending puzzles. Head over Heels has a huge playing area and probably the best graphics on a PCW game Totally absorbing gameplay. Order code 8007





Issue 12 SOLD OUT!

Issue 13 £1.75 Linking to portables. PIP revealed. Genealogy software. Protext and Hitch-hiker's tips. Datastore. Fleet St. fonts. Order code 8021

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AtLast Plus review. Order code 8026

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Issues 21 £1.75 New Locoscript fonts reviewed. Guide to add-ons. PCPCW link. Poster printing packages. Order Code 80021

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Issue 23 £1.75 Composing music on your PCW with EMR. Locomail. DTPclip-art and fonts reviewed. Three new accounts packages. Order Code 80023

SCRABBLE

nly £12.95! (RRP £19.95)



9512

software:

The following

titles do not

run on the

Tau Ceti:

Tetris

Head Over

This will appeal to anyone who enjoys playing with words. A super enhanced dictionary and full board displayed on-screen means you get the full feel of this classic game. Play against friends or take the computer on. Can you beat your PCW at word processing? Order code 8008

TETRIS Only £14.99 (RRP £19.99)

The real raw All blood into both has ratio

The first Russian game to reach the West has won rave reviews everywhere. All you have to do is guide blocks down the screen into complete rows on the bottom – but be warmed it has a 'Just one more go' rating of 100 per cent! Order Code 8027



TAU CETI Only £9.95 (RRP £19.95)

This arcade adventure from CRL creates its own cosmology and combines the best features of shoot-tem-ups with intelligent gameplay. Set in 2140, on a planet whose defence systems are going wildly wrong, you must sort the situation out before possible catastrophe.

A classic that breaks down the distinction between arcade and adventure gaming. Order Code 8012



SPECIAL 8000 PLUS

MINI OFFICE PROFESSIONAL

Only £23.95 (RRP £29.95)

An incredible value-for-money integrated package combining database, spreadsheet, word processor, comms and graphics function, Mini Office combines features often not included in



software three times the price: sideways spreadsheets, full database sorting, Prestel compatibility and extremely fast word-processing including a word counter.

In one package, this does just about everything it's possible to do on a PCW – if you want to break free of LocoScript, this amazing value program is for you.

Order Code 8011

8000 PLUS DISC LABELS

Packet of 20 for £1 (when ordered with another product)

Spare labels for your 3" discs in four different colours — yellow, green, red, blue. You get five of each colour when ordering with another item from Special Offers.

Order Code 8013



8000 PLUS DUST COVERS

Order Code 8005 (8256/8512), 8006 (9512)

3 piece set for 8256/8512 only £11.95 3 piece set for 9512 only £12.95

Dust is like a disease to your computer. Once it sets in it can only get worse, and leads to clogged keyboards, printers and even disc drives. These specially-commissioned 8000 PLUS covers are made from high quality, and statin cylon labric, coloured soft grey with red piping (vory piped with brown for the 9512). The sweets three pices you'll ever come across.

ACADEMY

£12.95 (RRP £19.95)

A brilliant sequel to the groundbreaking space expiration game Tau Ceit. In Academy you must complete 20 missions, grouped in five levels of four; combat skills and environmental understanding mean must both be completed to succeed. Graphics and control factors have been heighthered to push computer garning to a completely fresh level. You won't be disappointed! Order Code 8035



HIGHLIGHTER PENS Three for £1.50

The idea is simple — you use these highlighter pens to mark out any key text you want to stand out in a document. For £1.50 you get green, red and yellow 8000 PLUS-stamped pens in a clear plastic wallet.

Order Code 8001



ATLAST PLUS

An excellent database for just £29.95 (RRP £39.95)

"Superb value for money" was what 8000 Plus called AtLast. Now, with the release of AtLast. Plus by Rational Solutions, you can buy one of the best databases for £10 less than the full retail price!

Features include up to 32,000 records, 20 fields per record, and 99 elements per field user-definable printing and screen layouts, fast indexing/sorting facilities and automatic data reorganisation. As well as this, unused data space is not wasted, making AtLast Plus an ential database for PCW 8256 owners Order Code 8220



MAGAZINE BINDERS

Store up to 12 issues for just £4.95

We aspire to the belief that you would like to collect your copies of 8000 PLUS, and to that extent we have produced this superb gold-embossed green binder, which allows you to collect 8000 PLUS as it comes along. Buy one and watch your collection grow into the definitive library of PCW info. Order Code 8004



HACKERS HANDBOOK III



There is no other book like this! Hugo Cornwall clears up all the mystique of hacking, while also providing an exacting code which all hackers would do well to use as both map and compass

A bestseller when it first came out, this new edition goes from first comms principles to networks, videotex, radio computer data - all written in entertaining prose that carries you along with the enthusiasm of discovery. For the general reader and specialist alike. Order Code 8231

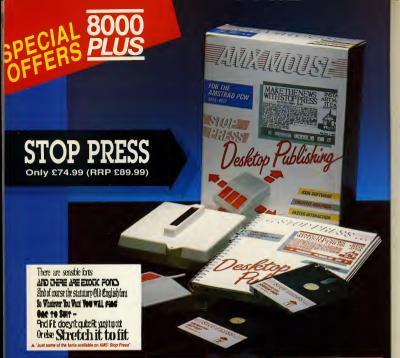
THE 8000 PLUS GIFT PACK

3 blank Amstrad 3-inch discs (suitable tor any PCW, drive A or B)

2 packets of colour-coded disc labels (40 in total)

set of highlighter pens (red, green and blue)

Subscribe already?



Desktop publishing - doing page makeup on your computer instead of the old cutand-paste method - is the boom area of home computing. All the national dailies are switching over to DTP methods - and so are thousands of PCW owners, to produce newsletters and flyers

Want to try your hand? The best developed DTP package for the Amstrad PCW range is now available from Future Publishing at an all-in price of £74.99. Stop Press's incredibly versatile and powerful software plus mouse will turn your PCW into a DTP machine.

The Swiss-made mouse is probably the best currently available and offers high resolution movement all over the screen. The software makes the best possible use of this sensitivity, featuring as it does a wide range of DTP facilities which would probably cost three times as much on higher-priced computers.

- Just a few of the features are: -
- 14 different fonts supplied
- Type sizes from 9 to 96 points
- Clip art ready made to insert into files Text entered directly or imported
- from word processor
- On-screen text formatting, including
- autoflow around a picture
- Draw, spray or paint your own designs or those supplied
- Up to nine columns per page! Bold, italics, underline, reversed boxes
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A battery of badinage, barracking and bathos bandied around by a bankrupt Ed.

Yes folks, B is the letter of the month. Got one in your bonnet? Tell all – this is the forum for discussion about the PCW world. Or even the real one. Write to Us at PostScript, 8000 Plus, 4 Queen St, Bath BA1 2BL.

There's an international took to this month's letters; correspondents from Finland, Portugal, Poland, and Watford (there's your bathos). Now feed on..

Poles apart

In your September issue you asked one of the competition winners a question. The winner was Marek Lasota from Warsaw, Poland, and the question: how many PCWs are there in Poland? As it happens, I also live in Poland (not in Warsaw, though) and I am also a PCW user, so I hope I am at least a bit entitled to answer. So: not many, really. At most there is a four digit number of them (with the first digit rather small) I do understand the situation on the micros market in

Poland First of all, micros are relatively expensive. In fact they are even incredibly expensive; the PCW's price is almost that of the small car (a new one). Then, you have much difficulties with good software professionals are working for PCs some of them for Commodore Amiga or Atari ST series - sorry if you consider these names foul words (and you should a magazine such as yours). Polish currency is blocked, so it is not easy to put your hands on Mini Office or Stop Press.

The most popular micros (I mean those owned by private persons) in Poland are - I am ashamed to say - Atari XE and XL series and Commodore C64 with a small addition of C128. People who are professionally interested in programming are running for IBMs

and its clones. The PCW has its own enthusiasts and supporters (I am one of them). It is cheap - as for the full set of CPU, monitor, keyboard, disc drive and printer the price is relatively low. It is running the best word processor I know of that is LocoScript (I have never tried Protext but I am not sure I would like to). It has some pretty good implementations of Pascal or C. I am a mathematician myself

WELCOME TO POLAND Garrett. and - besides - I do a lot of translation (English to Polish, mainly science fiction). I found the PCW totally satisfying on both So - there are not many PCWs

in Poland, but the few of them that are, are in the hands of people who knew what to buy. Piotr Cholewa Poland

A question of letters

I have a number of questions that I hope you will be able to help me

and others with. 1. Luse LocoScript 2 with LocoSpell. As I am dyslexic this is the best investment for me. I have the Amstrad PCW8256 with memory and drive upgrade, and I wish to use Supertype 2 as well as LocoSpell. Can you please tell me if there is any way to load my start of day disc in drive B on a 706k disk as this will allow the space to use all the functions that I need. thus saving me chopping and changing files from disc to disc. 2. Will you be publishing any tips for the use of LIB.COM (CP/M)? 3. Can you tell me if there is any way to convert Fleet Street Editor Plus and Mini Office Professional to load in drive B and to continue to run in B?

4. Can you tell me the name of a good book that covers in detail the functions of CP/M on the PCW?

And a quick note of praise for your mag and the Amstrad PCW. It has changed my life, before I had the PCW I never did anything that involved pen and paper but now as you can see I am sending letters and so much more Mark Malcolm-Brown Cambridge

8000 PLUS If you start up LocoScript with a disc in drive B which has a dictionary in group 0, it will automatically be copied to the memory on starting up. That should solve your first problem.

As for LIB.COM, the next couple of issues may surprise you.

There is absolutely no way to load Mini Office and continue to run it from drive B. It is impossible. Nobody in the world can do it. (This is the best way to get someone to write in saving how it can be done)

The standard books on CP/M are The Amstrad CP/M Plus (Clarke & Powys-Libbe, MML Systems, 01 247 0691) and The Digital Research CP/M Plus Manual (£14.95, Heinemann, 01 581 9393)

Dyslexia is the butt of a lot of feeble jokes, and its image is clouded by the fact that it is commandeered by a lot of people as a fashionable excuse for just being bad spellers. So it's nice to know that those who have it can also benefit from the quiet technology revolution. The PCW isn't just for husinessmen and writers!

Time flies

The method of adding hours and minutes in spreadsheets suggested by Mr Buddin in the October Tip Offs appears to have some brackets moved about in his formula no 1. (The one that first converts entered hours and minutes to decimal hours).

He also suggests that there could be a degree of inaccuracy in the final total, therefore I suggest the following for formula no1 (((B1 + 0.00001) - int (B1)) 0.6) + int (B1)

The small value of 0.00001 is to prevent certain combinations of added hours and minutes from appearing, for example, as 7.60 instead of 8.00. Formula no 2 for displaying a final total in cell B4 is unchanged.

Alan Hepworth Radstock, Bath

Not on the tip vet

Four weeks ago I purchased a PCW 8512. Within a few days I was wondering why! Although in retirement we are all advised to keep our brains active, there must be a limit, and I thought I had gone over that limit with LocoScript 2.

However, my life (and attitude to same) has changed - a) I discovered your excellent 8000 Plus in the local newsagent b)

86 8000 PLUS Nov 88

signed up for a 12 months subscription c) requested and received a number of back issues and d) have read your TIP OFFS section and others

I know you are busy but please issue the necessary instructions for the production of reprints of the TIPOFFS collection 1-6, or even an update! I do not wish to get the lady in the Barn' in trouble but she did say she had received many calls like mine and said 'the editor did not think the exercise worthwhile'.

While writing, may I congratulate all your Sales/Order Staff – the response time to a telephoned order for subscriptions and various other items does your company credit.

B J Joint Wattord

PS I have bought Mini Office to be getting on with and am gaining confidence every hour. It's very good, but it's a shame it hasn't MiniSpell!

8000 PLUS Not worthwhile? Don't believe a word of it! You'll be glad to know we're putting together a collection of all the tips we've published ever about anything. Details in 'Keywords' on page 3.

Here comms trouble

Enough is enough. For some time now I have suspected an unwritten bias against the area of computer communications in your otherwise wonderful magazine. Your

response to the letter on Email in the September issue has finally made this explicit. Please do something to change your views, and indeed to change the coverage in the magazine, for it is actively unhelpful of you to perpetuate the idea that comms is not for ordinary people: the more people stay away from it the less use it is.

For the record I am a journalist and have no specialist knowledge of computers, hardware or software. Anything I can do on my PCW can be done easily by anyone eise. I have an 8512, a Miracle WS4000 modem that was simplicity itself to connect, runt was subscribe to Microflink. Easily 50% of my time at my PCW is spent this way, rather than word processing.

All have to do to get working is plug the modern into the phone line, turn on the computer and insert the software (self loading). Select Microlink from the menu and the software (which was a doddle to set up) dials the number and connects me automatically. Unlike your correspondent, this has so far not involved me remembering a single 'ridiculous key stroke'.

Once on Microlink, I have to type 'ee' and then 's' to send a letter by Email. Not too hard, I think you will agree. The problem comes with the difficulty of finding anybody to contact, so widespread is the comms terror. And this is where your attitude is so counterproductive. Many people like me would benefit if only they hadn't been led to believe that communicating computer to computer is 'too complicated and unraliable'.

As just one example I have broken a big story, which involved collecting a great deal of background information, without once leaving home to read a single cutting or queue up at a companies' house. Microlink gives you access to the commercial databases that make this possible. Profile offers key word searches through a large number of national newspapers; this means you can. for example, select every reference to 'bumble-bees' in, say, the FT and the Sunday Times over the past two years, something which not even the most sophisticated of non-computerised reference systems can offer, ICC, Jordans and Infocheck enable you to find any British company that, say, has its registered office at 'The Hive Hove, Sussex' and discover who owns it. All the information can be easily stored on disc, edited and printed out

It is true that all this costs money, but the readership of your magazine is wide, and not just restricted to hobby users on pocket money budgets.

An additional point: I would no doubt enjoy running some of your Listings. But as a freelance I value my time too highly to spend ages typing them in. If you, like Computing with the Amstrad (hiss),

also offered the listings through Microlink, it would be a matter of a few minutes to download them on to my own disc.

As this letter has turned into a long commercial, I will finish with some niggies: Sagesoft have set up ChitChat in awy that makes it not the best software for the big American databases, Dialog and The Knowledge Index. And their text editor doesn't like large filles. Also, by as I might, I have never succeeded in sending a telex through Microlink. An online news service would be helpful, as the Service would be helpful, as the Sebastian Cody.

8000 PLUS The next few issues may surprise you.

Pro-scribed

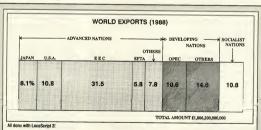
I use Protext as well as LocoScript. though for different purposes. I have occasionally needed to transfer text from one to the other. Transferring LocoScript text to Protext is easy, using the ASCII conversion option in LocoScript. but I haven't yet found a way of doing the reverse. If I try to insert a Protext document into a LocoScript template I sometimes net practically nothing apart from the first word or so, and on other occasions get the whole text, but with some odd substitutions in many of the words. Can you help? M S Ruddock Banbury

8009 FULS To insert a Protest document into LoosScipti, first put a ruler line at the top of the Protest original which is, say, two thousand characters wide, format the document with £ and save as normal. When you "insert his ([IT] LoosScript 2, [IT] LoosScript 1, into a Loos document is should be OK, certailly in LoosScript 2 anyway. The occasional capital sigmas and lower case alphase can be removed by [EXCH], using "Super Shift to enter the Greek letters to be replaced."

Guten organ

I recently needed to produce a list in alphabetical order of just over 800 organ-building terms in connection with the Esperanto section of a multilingual organ building dictionary in which I am collaborating.

Having carefully typed into 'Arnold' my 8256, the second index maker provided in the listings section of your September 1987 issue, I loaded the ASCII version of my text and waited. In a very short time I was greeted with the following error message; "Subscript out of range in 90".



Easy for you to say I was interested to read DIY GRAPHICS (Sept '88) but would wish to correct one point. In the article, discussing the possibility of Inserting graphics into a word processor document, the claim is made that 'you can't do it in LocoScript'. Not true! I enclose two pages produced on a PCW 8256 using LocoScript 2 and printed by laser. Without leaving Locoscript it is possible to create any graphic effect which can be done with Basic GSX, but it is much easier using the bundled word processor, and laser printed output is so much better. J Wollaston Brighton

8000 PLUS OK, I was completely wrong, I should've said 'you can do graphics instantly and easily in LocoScript provided of course you have a list of typesetting marks and a two thousand pound laser printer next to your PCW."

POSTSCRIPT

As the text did not in fact include any subscript I wondered whether the trouble was lack of memory space for proper functioning of the program, and this seemed to be borne out by the fact that when confronted with up to some 450 items — just row rall'the complete text — the program worked perfectly and very radidly, too.

and very rapidly, too. Very well, I innocently thought, I will betake me to my brother-inlaws 8512 and do my indexing there. Result: the same error message appeared as on the 8256 whenever the machine was asked to handle more than approximately 500 items.

Finally, in desperation, I typed in the first, shorter and simpler program, which you suggested was only suitable for short lists, due to its lack of speed. Success! True, the indexing took Armold about half an hour but it did the job without complaining even once, allowing me to have my tea in peace.

Can you please enlighten me as to what goes wrong with your second more rapid program?

second more raping program?

By the way, 'Arnold' owes his name to my wife, who has now, after a year or so, more or less — come to less — come to less — to come to less — to come to less — to the house and having me disappear for house and having me disappear for house and having me disappear for house on end into but house it is community or electron to but house it is community or electron to but house the soft of the second that have a continued as the second that have a continued to the second that have a community or the second that have a s

8000 PLUS Just after the DIM ws (500) in line 10 of the program to DIM ws (1000) or whatever you like. That makes the maximum canacity of the sorter bioder.

And as for other 8256s having acquired 'pet' status with names... I hope not.

Finn lines

As a user of a very early version of Fleet Street Editor Plus program for an Amstrad PCW 8512 I fully agree with Mr Hobart (8000 Plus September 1988) concerning the number of bugs and Mirrorsoft's total unresponsivness to enquiries. I have found the following bugs

in the software:

— you can print a publication only
once without reloading the
software from beginning; the text
gets corrupted, eg, part of text from
page 2 is mixed with text from

page 1 on page 1.

you cannot have two adjacent pictures without any text between. If you try the second picture appears twice and even then is not completely correct.

 the page is too long for the Amstrad PCW printer when using single sheet feeding.
 the [RELAY] key in the Layout editor functions as a start strike

and not as a relay.

— when editing an old text the editor adds two blank lines to the beginning of text.

 if you do 'box column'/remove box/box column etc several times the column becomes narrower every time.

Have I to buy another more reliable desk top publishing package? Antero Airola Finland

8000 PLUS Er - how can I put this?... Yes.

Protect and survive

I read Mr Stevenson's account of the requirements of the Data dead people). Fortunately purely private use is exempt; you only have to register if you use your PCW for business. If in doubt ring the Benistrar on 0625-535777.

SuperCalc printing

I note with interest Mr G Hayward's letter in September 8000 PLUS and your reply, which in substance was also published in the February 1987 TinOffs feature.

I fried this in 1987 without success and was prompted to have another attempt but again with similar results. When keying in tocodes as suggested by you nothing comes up on the screen nor does the printer produce high quality. In effect, we have a choice of a screen dump at about Pitch 17 or Draft quality, is it possible that we have an incompatible Super-Calc?

have an incompatible SuperCalc?
A further point; the Supercalc
manual refers to CTRL and ESC

ANCHAR HOSEL DE LA CONTROLLE D

"I HOPE YOU'RE REGISTERED UNDER THE DATA PROTECTION ACT "

Protection Act (Postscript, October 1988) with interest. However, I believe his conclusion that 'staff reports' entered onto a computer in a purely text format using a word processor, can be regarded as being outside the Act' is in error. I corresponded at length with the Deputy Data Protection Registrar, Mr F G B Aldhouse. I hold names and addresses of my correspondents on my computer as part of the processor exemption only applies if the PCW is used as the equivalent of a typewriter, and no copies of the letters produced are retained as computer files. Hard copies only are permissible without registration

J Macluachlan Yeovil

8000 PLUS Before all of you who've ever stored a letter on disc go and pay £40 to register as a data user, rest assured. Registration is compulsory for anyone

who stores information about living people and references them by name – so if you have your letters on disc it applies to you (unless of course you only write letters to keys. Can you confirm that these are ALT and EXIT on the 8512 keyboard. A G Mather Guernsey

8000 PLUS The problem is that SuperCalc sends codes to the printer automatically any time you print. If these happen to be, any time you print. If these happen to be, to tat, then even sending the code for 12 total, then even sending the code for 12 pitch manually gots overriden. You have to reconfigure this code to zero using the NSTALL program. Pun INSTALL and select the 'Modify printer' ciplion, select time 8 to change and give zero as the new printer code. Your new SC2 will accept any of the codes given previously.

Yep, [ALT] on the PCW keyboard corresponds to [CONTROL] on most other corresponds to [CONTROL] on most other example, CHR\$(27) is the ESC of 'escape codes'. Just as you'd type CR\$(27) **F** CR\$(27) **F** To clear the screen in BASIC, pressing [EXIT]=[EXIT]# in CPM does the same.

Port of call

Sorry for disturbing you with my

PCW problems, but those who should assist us in Portugal – Cominfor, the Amstrad representatives for this country – are too busy with bigger machines like PC and do not pay much attention to those poor ones who build trivewriters named PCW.

I am using my machine - a PCW 8256 converted to 8512 cinco at least three years and and I must say that I like it very much. I am using LocoScript 2. LocoMail. LocoSpell and LocoFont (both series) and I am quite happy with the results, except for a few details. 1. When using LocoSpell I have always to use a system dictionary. otherwise it does not work with only a user dictionary For English (and a few other languages) there is no problem, but for Portuguese I am making my own dictionary of Portuguese words and have to have them always mixed up with English

2. If I could have an empty system dictionary, I could very easily solve the problem as I can add new words to a system dictionary, but people at Locamotive Software say they can't sell me such a system dictionary and give me no solution for a problem which believe to be that of a large number of non English speaking people of the programs made by myself in Mallard Basic, but I always have a small problem.

As you probably know, Portuguese is one of those unfortunate languages where accents are necessary. Though I can redefine the keyboard to put any of these characters on the screen, I can't do the same with the printer.

3. On a back number of your magazine (August 1987 – page 84) I read about a program named HOTSHOT which would be very much more interesting if it could work with the last versions of Locoscript (1 have LocoScript 2 version 2.14)

Well, I think this is trouble enough for one letter, but I would thank you very much if you could assist me with your advice and I hope to see your answer on one of the next issues of the best magazine about PCW machines that I ever read.

H Silva
Amadora, Portugal

iniaaana, r artagar

8000 PLUS Your LocoSpell problems are over: Locomotive, being good sound crossculturalists, are bringing out a Portuguese LocoSpell shortly. You'll also be interested in Locokey, their program which can redefine LocoScript 2 so that any

Mind your heads

I am a professional writer, researcher and photographer and I rely a great deal on my Amstrad 8512, which I have had for two years. I use Stop Press, MasterScan (I edit a couple of house magazines for small fault, ie it does not print the tops of capital letters.

I am wondering if perhaps the printhead needs cleaning and would be obliged if you would let me know what sort of cleaning product and method to employ. 8000 PLUS You can a) take it to your local computer shop b) order a new printer mechanism for £80 from Isenstein (0244 312986) or c) repair it yourself as per like Dawson's tip in last February's 8000 Dives

v rius. You need a tinv (eg. watchmaker's)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

companies) Supercale, Brainstorm, Sophos (a splendid cataloguing system for my photographs) and LocoScript 2.16 for my word processing. Until a few days ago, all was well and the printer worked satisfactorily, but recently it developed a major If you think that there might be some other fault in the printer, would you be so kind as to advise me accordingly. If I need a new printhead, for instance, where can I get one? Amstrad are no help. Margot Moran London

screwirver. With the print head still tethered to the printer by the copper braid, remove the four tiny botts from the printing side of the head. Keeping the metal striker part of the print head uppermost (black plastic and printing face downwards) carefully ease the metal striker away from the black plastic. housing holding the pins. Put the black plastic piece on the table, printing face downwards.

Note the position of the circular pintals on a circular (largerm. With a pair eyebrow heezers, carefully withdraw the pins and lay them on a circle. Remove the return leaf spring, it has a small protrusion which coles into a matching side on the plastic case on a world protrusion should be position. Beneath the leaf springs ring, there's another packer ring which exactly matches the leaf springs ring, beneath that is a fibre weather to story dispersable that is a fibre

wasner to stop dust.

Douse the plastic printing head and particularly the fine slots in which the pins slide with lots of WD40. Reassembly is the reverse procedure.

combination of letter and accent can be assigned to any key.

As for the BASIC problem, the easiest way out might be to define strings such as still ded-"a" +"chts'(3) + chts'(120). This way to the strings of the strings of the string to the string of the string to the string of the string to the string of the strings of the strings

Hotshot is, alas, no longer available.

Good for him

My grandson Reuben Thomas has instructed me to point out an error in the listing for 'Patience' printed in your July edition, page 59. Line 280 should end with

INT(RND(1)*100+1) and not with INT(RND(1)+100+1). As printed, the game is always at the highest level of difficulty. He also points out that it is

wrongly named. Patience is a game for one player only. The game listed is a competitive game which has been known for many years as Pelmanism or Pairs.

Basil Rose Abingdon

Character sketch

I was interested to read the article in September issue of your magazine, entitled The Good Software File about LocoScript 2.12 having the facility to create character of ones own design. I have the 295 page manual which was supplied with my copy of LocoScript 2 and I proceeded to search through it for instructions on low to do this.

The only mention I can find, in

the whole manual, comes almost at

the end, in Appendix III, I quote..
"you can also type 10 (not 16) 'user
definable' characters. How to
define these characters is
explained in the Locoscript 2
Reference manual"

I do have another problem that I can't overcome easily. I have tried using my PCWs matrix printer for addressing envelopes but they get creased up and the roller slips. I would appreciate some assistance in that quarter too if anyone can help.

R S Chamberlain

R S Chamberlai

8000 PLUS To define your own characters you need "Locochar" from Locomotive which lets you redefine 16 (not 10) characters – see this month's Good Software Guide on pages 78-79. It comes with instructions, and 8000 Plus did a feature on it in issue 17, Feb. 88. Amstad wort be happy II I say the

PCW printers are cheapo things, not really robust enough to handle envelopes, so I won't. I'll just say that you can't use thick 'quality' envelopes and the thin ones you can use must be eased through by hand. Not so the 9512 printer which is stronger.

Free!

Users of public domain software on the PCW often find that a program doesn't work under CP/M Plus or that it needs installing, or that the documentation is abstruse to say the least. Your readers may be interested to know that these problems will be over if programs are obtained from the above source. An ever-increasing number of PD/Shareware programs are available and guaranteed to run on the 8256/8512 machines. Clear concise documentation is available for each program. The lists include languages, utilities, databases, text editors, games, and so on. Interested readers can obtain lists of available programs from the above address. All programs are available upon receipt of a small copying fee plus a formatted disc. Mick Reed

PCW Software Library, 11 Older Way, Angmering Sussex BN16 4HQ

Dummy run

I use a DMP off the par socket as the main printer on my PCW 9512 which, as you pointed out in your October issue, will not work if the internal printer is unplugged. This is a nulsance to anyone who has to move the machine about.

Is there a dummy plug which will fool the 9512 into thinking its own printer is connected?

When I phoned Amstrad to enquire, I must have got their telephone answering parrot which kept repeating: "We don't publish technical information", even when I gave up and asked what the weather was like down their way! D C A Layzell Newnham

8000 PLUS At least Amstrad would felt us what the weather was like down their was fixed with the was fixed for their was fixed fix

Enough of your sauce Having on more than one occasion

(somewhat bog-eyed from spending too long at the computer at one time) switched off without first having removed the discs, I decided to do something about it and so I pressed into use a metal sauce bottle top and a small piece of sellotape which was used to

hang the top over the on-off switch.

I now have to lift up the top to switch on or off which causes me to think why I put the top there in the first place.

the first place.

I am now thinking of marketing a special kit consisting of a cap and a small roll or sellotape. Given with it will be a free bottle of Heinz Tomato Ketchup. Initial price has not been fixed but will be something under £20. Any interested manufacturer can contact me through \$6000 Plus.

L Morley Cleveland



THAN TO SHAKE IT WHEN THE POWS SWITCHED ON...

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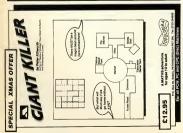
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